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CONCRETE  
AND STEEL  
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SUPPLY  
CO. INC.

ERIE, PENNA.

PHONES « Erie 4466-4467-4468

STOCK LIST  
1937



"Plant Layout"

# Complete Line Of

High  
Speed  
Steel

*The Bright Blade*

Special  
Alloy  
Steel

*The Red Blade*

Tungsten  
Steel

*The Black Blade*

# SIMONDS

## "Red End" Hack Saws

for every metal cutting job

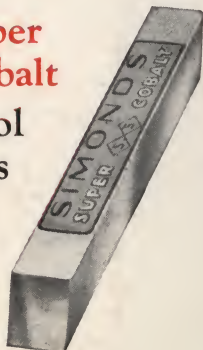
Now you can get Simonds "Red End" Hack Saw Blades in three qualities for hand frames and power machines to cut every kind of metal straight and fast, and at lower costs.

Red Streak  
High Speed  
Steel



## SIMONDS TOOL BITS

Super  
Cobalt  
Tool  
Bits





LIST PRICES

# SIMONDS **RED END** HACK SAWS

High Speed Steel  
"The Bright Blade"

Hand Blades

Special Alloy Steel  
"The Red Blade"

Hand Blades

| Length and Width        | Gauge Thickness | Teeth per Inch | Price per Gross | No. in Box |
|-------------------------|-----------------|----------------|-----------------|------------|
| 10" x 1 1/2" x 23 = 025 |                 | 18-24-32       | \$40.32         | 1/2 gross  |
| 12" x 1 1/2" x 23 = 025 |                 | 14-18-24-32    | 48.96           | 1/2 gross  |
| 10" x 3/8" x 21 = 032   |                 | 18             | 90.00           | 1/2 gross  |
| 12" x 3/8" x 21 = 032   |                 | 18             | 108.00          | 1/2 gross  |

| Length and Width        | Gauge Thickness | Teeth per Inch | Price per Gross | No. in Box |
|-------------------------|-----------------|----------------|-----------------|------------|
| 10" x 1 1/2" x 23 = 025 |                 | 18-24-32       | \$40.00         | 1/2 gross  |
| 12" x 1 1/2" x 23 = 025 |                 | 14-18-24-32    | 48.00           | 1/2 gross  |
| 10" x 3/8" x 21 = 032   |                 | 18             | 67.50           | 1/2 gross  |
| 12" x 3/8" x 21 = 032   |                 | 18             | 81.00           | 1/2 gross  |

## Power Machine Blades

| Length and Width        | Gauge Thickness | Teeth per Inch | Price per Gross | No. in Box |
|-------------------------|-----------------|----------------|-----------------|------------|
| 12" x 1" x 18 = 049     |                 | 14             | \$172.80        | 1 dozen    |
| x 1" x 16 = 065         |                 | 6-10           | 172.80          | 1 dozen    |
| 14" x 1" x 18 = 049     |                 | 14             | 201.60          | 1 dozen    |
| x 1" x 16 = 065         |                 | 6-10           | 201.60          | 1 dozen    |
| x 1 1/4" x 16 = 065     |                 | 4-6-10         | 252.00          | 1 dozen    |
| 17" x 1" x 18 = 049     |                 | 14             | 244.80          | 1 dozen    |
| x 1" x 16 = 065         |                 | 6-10           | 244.80          | 1 dozen    |
| x 1 1/4" x 16 = 065     |                 | 4-6-10         | 306.00          | 1 dozen    |
| 18" x 1" x 16 = 065     |                 | 10             | 259.20          | 1 dozen    |
| x 1 1/4" x 16 = 065     |                 | 4-6-10         | 324.00          | 1 dozen    |
| x 1 1/2" x 15 = 072     |                 | 4-6            | 427.68          | 1 dozen    |
| 21" x 1 1/2" x 16 = 065 |                 | 4-6-10         | 455.60          | 1 dozen    |
| x 2" x 15 = 072         |                 | 4-6            | 665.28          | 1 dozen    |
| 24" x 1 1/2" x 16 = 065 |                 | 6-10           | 518.40          | 1 dozen    |
| x 2" x 15 = 072         |                 | 4-6            | 760.32          | 1 dozen    |

## Power Machine Blades

| Length and Width        | Gauge Thickness | Teeth per Inch | Price per Gross | No. in Box |
|-------------------------|-----------------|----------------|-----------------|------------|
| 12" x 1" x 18 = 049     |                 | 14             | \$120.96        | 1 dozen    |
| x 1" x 16 = 065         |                 | 6-10           | 120.96          | 1 dozen    |
| 14" x 1" x 18 = 049     |                 | 14             | 141.12          | 1 dozen    |
| x 1" x 16 = 065         |                 | 6-10           | 141.12          | 1 dozen    |
| x 1 1/4" x 16 = 065     |                 | 4-6-10         | 176.40          | 1 dozen    |
| 17" x 1" x 18 = 049     |                 | 14             | 171.36          | 1 dozen    |
| x 1" x 16 = 065         |                 | 6-10           | 171.36          | 1 dozen    |
| x 1 1/4" x 16 = 065     |                 | 4-6-10         | 214.20          | 1 dozen    |
| 18" x 1" x 16 = 065     |                 | 10             | 181.44          | 1 dozen    |
| x 1 1/4" x 16 = 065     |                 | 4-6-10         | 226.80          | 1 dozen    |
| x 1 1/2" x 15 = 072     |                 | 4-6            | 298.08          | 1 dozen    |
| 21" x 1 1/2" x 16 = 065 |                 | 4-6-10         | 317.52          | 1 dozen    |
| x 2" x 15 = 072         |                 | 4-6            | 463.68          | 1 dozen    |
| 24" x 1 1/2" x 16 = 065 |                 | 6-10           | 362.88          | 1 dozen    |
| x 2" x 15 = 072         |                 | 4-6            | 529.92          | 1 dozen    |

## Tungsten Steel

"The Black Blade"

Hard Edge and All Hard Hand Hack Saw Blades

| Length and Width        | Gauge Thickness | Teeth per Inch | Price per Gross | No. in Box | Weight per Gross |
|-------------------------|-----------------|----------------|-----------------|------------|------------------|
| 8" x 1 1/2" x 23 = 025  |                 | 14-24-32       | \$8.00          | 1/2 gross  | 3 3/4 lbs.       |
| 10" x 1 1/2" x 23 = 025 |                 | 14-18-24-32    | 10.00           | 1/2 gross  | 4 3/4 lbs.       |
| 12" x 1 1/2" x 23 = 025 |                 | 14-18-24-32    | 12.00           | 1/2 gross  | 5 3/4 lbs.       |
| 12" x 1 1/2" x 23 = 025 |                 | 14-18-24       | 13.50           | 1/2 gross  | 6 3/4 lbs.       |

14 Teeth—for cutting soft steel, iron solids, and rails.

18 Teeth—for cutting tool steel, iron pipe, hard metals, and light angle iron.

24 Teeth—for cutting brass, copper, drill rod, medium tubing, and sheet metals

32 Teeth—for cutting thin tubing and thin sheet metals.

## All Hard Light Power Hack Saw Blades

| Length and Width       | Gauge Thickness | Teeth per Inch | Price per Gross | No. in Box | Weight per Gross |
|------------------------|-----------------|----------------|-----------------|------------|------------------|
| 12" x 3/8" x 21 = 032  |                 | 14-18          | \$16.20         | 1/2 gross  | 9 1/2 lbs.       |
| 12" x 3/4" x 21 = 032  |                 | 14-18          | 19.44           | 1/2 gross  | 11 lbs.          |
| *14" x 3/4" x 21 = 032 |                 | 14             | 22.68           | 1/2 gross  | 12 1/2 lbs.      |

14 Teeth—for cutting solids in iron or steel, and for general shop saw work.

18 Teeth—for cutting brass, castings, iron pipe, heavy tubing, etc.

\*Also for Rail Frames.

## All Hard Heavy Power Hack Saw Blades

| Length and Width        | Gauge Thickness | Teeth per Inch | Price per Gross | No. in Box | Weight per Gross |
|-------------------------|-----------------|----------------|-----------------|------------|------------------|
| 12" x 3/4" x 18 = 049   |                 | 10-14          | \$24.48         | 1/2 gross  | 17 1/2 lbs.      |
| x 1" x 18 = 049         |                 | 10-14          | 32.64           | 1/2 gross  | 23 lbs.          |
| 14" x 3/4" x 18 = 049   |                 | 10-14          | 28.56           | 1/2 gross  | 20 1/4 lbs.      |
| x 1" x 18 = 049         |                 | 10-14          | 38.08           | 1/2 gross  | 27 lbs.          |
| x 1 1/4" x 16 = 065     |                 | 10             | 58.80           | 1/4 gross  | 46 lbs.          |
| 17" x 1" x 18 = 049     |                 | 10-14          | 46.24           | 1/2 gross  | 33 lbs.          |
| x 1 1/4" x 16 = 065     |                 | 10             | 71.40           | 1/4 gross  | 54 lbs.          |
| 18" x 1 1/4" x 16 = 065 |                 | 10             | 75.60           | 1/4 gross  | 50 lbs.          |
| 21" x 1 1/2" x 16 = 065 |                 | 10             | 105.84          | 1/4 gross  | 82 1/2 lbs.      |
| 24" x 1 1/2" x 16 = 065 |                 | 10             | 120.96          | 1/4 gross  | 95 lbs.          |

14-inch, 17-inch and 18-inch Power Blades measure 13 1/2 inches, 16 1/4 inches and 17 1/4 inches between centers of holes respectively. All other power blades measure from center to center of holes

Write for Discounts

Because of  
the unequalled  
quality of  
Simonds Steel  
and the process  
of heat treating  
**SIMONDS**  
**BLADES**

outwear other  
Blades -

Cut straight  
Cut fast

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## DEPENDABLE STEEL SERVICE

Our aim at all times is to render prompt, efficient service to our customers on their steel requirements.

Our extensive stocks of merchandise as listed in this new issue of our catalog will enable us to fill your orders with a minimum of delay.

If you do not find the item you desire listed, call or write us. We will be able to take care of you.

In addition to carrying in stock the full line of hot rolled and cold drawn steels, steel pipe, sheets, etc., as manufactured by the leading mills, we are distributors for the following special steel products and accessories:

|  |                                       |
|--|---------------------------------------|
| <b>BRACE-MUELLER-HUNTLEY, INC.</b>       | Ludlum Tool Steels                    |
| <b>REPUBLIC STEEL CORPORATION</b>        | Toncan Iron Sheets                    |
| <b>MILCOR STEEL COMPANY</b>              | Sheet Metal Supplies                  |
| <b>CRANE CO.</b>                         | Plumbing and Mill Supplies            |
| <b>FEDDERS MFG. CO.</b>                  | Forced Air Unit Heaters               |
| <b>TUBE TURNS, INC.</b>                  | Seamless Steel Welding Fittings       |
| <b>YOUNGSTOWN STEEL PRODUCTS CO.</b>     | Steel Pipe                            |
| <b>REVERE COPPER &amp; BRASS INC.</b>    | Brass and Copper Products             |
| <b>JAMESTOWN BRONZE WORKS</b>            | Ornamental Bronze Work                |
| <b>IRVING IRON WORKS COMPANY</b>         | Steel Grating                         |
| <b>PAGE STEEL &amp; WIRE COMPANY</b>     | Protection Fence and Welding Wire     |
| <b>KEYSTONE STEEL &amp; WIRE COMPANY</b> | Galvannealed Wire Products            |
| <b>BLISS STEEL PRODUCTS CORPORATION</b>  | Steel Windows and Doors               |
| <b>LUNDELL-ECKBERG MANUFACTURING CO.</b> | Steel Casements                       |
| <b>MOESCHL-EDWARDS CORRUGATING CO.</b>   | Kalamein-Tin Clad-Rolling Steel Doors |
| <b>ROWE MANUFACTURING CO.</b>            | Garage Doors                          |
| <b>GENERAL BRONZE CORPORATION</b>        | Revolving Doors                       |
| <b>E. F. HAUSERMAN CO.</b>               | Office Partitions                     |
| <b>MILWAUKEE STAMPING CO.</b>            | Toilet Partitions                     |
| <b>EXCEL METAL CABINET CO.</b>           | Wall Cabinets                         |
| <b>DONLEY BROTHERS CO.</b>               | Building Products                     |
| <b>CONSOLIDATED EXPANDED METAL COS.</b>  | Metal Lath and Accessories            |
| <b>BATES VALVE BAG CORPORATION</b>       | Reinforcing Bar Ties                  |
| <b>UNION STEEL PRODUCTS CO.</b>          | Reinforcing Bar Accessories           |
| <b>GRAND RAPIDS HARDWARE CO.</b>         | Sash Pulleys                          |
| <b>OWENS-ILLINOIS GLASS CO.</b>          | Air Filters                           |
| <b>SULLIVAN MACHINERY CO.</b>            | Air Compressors, etc.                 |
| <b>RUST-OLEUM CORPORATION</b>            | Rust Preventive Paint                 |
| <b>SIMONDS SAW &amp; STEEL CO.</b>       | Files-Saws                            |
| <b>INTERNATIONAL HEATER CO.</b>          | Furnaces                              |
| <b>AMERICAN FORK &amp; HOE CO.</b>       | Shovels-Forks, etc.                   |

# BEAMS

## STRUCTURAL SIZES

### Manufacturers' Standard Specifications

| Size<br>Inches | Wt.<br>per Ft.<br>Lbs. | Thick-<br>ness of<br>Web<br>Inches | Width<br>of<br>Flange<br>Inches | Net<br>Extra<br>for Size | Stock<br>Lengths<br>Feet |
|----------------|------------------------|------------------------------------|---------------------------------|--------------------------|--------------------------|
| 3              | 5.7                    | .170                               | 2.330                           | Base                     | 40-45                    |
| 4              | 7.7                    | .190                               | 2.660                           | "                        | 55-65                    |
| 5              | 10.0                   | .210                               | 3.000                           | "                        | 55-65                    |
| 6              | 12.5                   | .230                               | 3.330                           | "                        | 55-65                    |
| 7              | 15.3                   | .250                               | 3.660                           | "                        | 55-65                    |
| *8             | 17.0                   | .230                               | 5.250                           | .05                      | 55-65                    |
| 8              | 18.4                   | .270                               | 4.000                           | Base                     | 55-65                    |
| *10            | 23.0                   | .240                               | 5.750                           | .05                      | 55-65                    |
| 10             | 25.4                   | .310                               | 4.660                           | Base                     | 55-65                    |
| *12            | 25.0                   | .240                               | 6.500                           | .05                      | 55-65                    |
| 12             | 31.8                   | .350                               | 5.000                           | Base                     | 55-65                    |
| 15             | 42.9                   | .410                               | 5.500                           | "                        | 55-65                    |
| 18             | 54.7                   | .460                               | 6.000                           | .10                      | 55-65                    |
| 20             | 65.4                   | .500                               | 6.250                           | .10                      | 55-65                    |
| 24             | 79.9                   | .500                               | 7.000                           | .10                      | 55-65                    |

All sizes cut to 5 feet and longer without charge. Under 5 feet subject to extras in back of book.

\*These are Wide Flange Structural Sections.

# H-BEAMS

## STRUCTURAL SIZES

### Manufacturers' Standard Specifications

| Size<br>Inches | Wt.<br>per Ft.<br>Lbs. | Thick-<br>ness of<br>Web<br>Inches | Width<br>of<br>Flange<br>Inches | Net<br>Extra<br>for Size | Stock<br>Lengths<br>Feet |
|----------------|------------------------|------------------------------------|---------------------------------|--------------------------|--------------------------|
| 4              | 13.8                   | .313                               | 4.000                           | .10                      | 55-65                    |
| 5              | 18.9                   | .313                               | 5.000                           | .10                      | 55-65                    |
| *6             | 15.5                   | .240                               | 6.000                           | .15                      | 55-65                    |
| 6              | 20.0                   | .250                               | 5.938                           | .10                      | 55-65                    |
| 6              | 25.0                   | .313                               | 5.938                           | .10                      | 55-65                    |
| *8 x 6½        | 24.0                   | .245                               | 6.500                           | .10                      | 55-65                    |
| 8              | 32.6                   | .313                               | 7.938                           | .10                      | 55-65                    |
| 8              | 34.3                   | .375                               | 8.000                           | .10                      | 55-65                    |
| *10            | 49.0                   | .340                               | 10.000                          | .10                      | 55-65                    |

All sizes cut to 5 feet and longer without charge. Under 5 feet subject to extras in back of book.

\*These are Wide Flange Structural Sections.

# STEEL JOISTS

We are now in a position to furnish rolled steel joists in both the beam type and the open web type together with necessary accessories.

These joists can be furnished either plain or fabricated according to your plans and specifications. Prompt deliveries assured.

Catalogues illustrating these two types of joists furnished upon request.

## CHANNELS

### STRUCTURAL SIZES

#### Manufacturers' Standard Specifications

| Size<br>Inches | Wt.<br>per Ft.<br>Lbs. | Thick-<br>ness of<br>Web<br>Inches | Width<br>of<br>Flange<br>Inches | Net<br>Extra<br>for Size | Stock<br>Lengths<br>Feet |
|----------------|------------------------|------------------------------------|---------------------------------|--------------------------|--------------------------|
| 3              | 4.1                    | .170                               | 1.410                           | Base                     | 40-45                    |
| 4              | 5.4                    | .180                               | 1.580                           | "                        | 55-65                    |
| 4              | 6.25                   | .247                               | 1.647                           | "                        | 55-65                    |
| 5              | 6.7                    | .190                               | 1.750                           | "                        | 55-65                    |
| 5              | 9.0                    | .325                               | 1.885                           | "                        | 55-65                    |
| 6              | 8.2                    | .200                               | 1.920                           | "                        | 55-65                    |
| 6              | 10.5                   | .314                               | 2.034                           | "                        | 55-65                    |
| 7              | 9.8                    | .210                               | 2.090                           | "                        | 55-65                    |
| 8              | 11.5                   | .220                               | 2.260                           | "                        | 55-65                    |
| 9              | 13.4                   | .230                               | 2.430                           | "                        | 55-65                    |
| *10            | 8.4                    | .170                               | 1.500                           | "                        | 55-65                    |
| 10             | 15.3                   | .240                               | 2.600                           | "                        | 55-65                    |
| *12            | 10.6                   | .190                               | 1.500                           | "                        | 55-65                    |
| 12             | 20.7                   | .280                               | 2.940                           | "                        | 55-65                    |
| 12             | 30.0                   | .510                               | 3.170                           | "                        | 55-65                    |
| 15             | 33.9                   | .400                               | 3.400                           | "                        | 55-65                    |

All sizes cut to 5 feet and longer without charge. Under 5 feet subject to extras in back of book.

\*These are light weight channels, especially adapted for stair stringers. They are sold at a special base price.

## CHANNELS

### BAR SIZES — SOFT STEEL

| Size in Inches                                   | Weight<br>per Ft.<br>Lbs. | Net<br>Extra<br>for Size | Stock<br>Lengths<br>Feet |
|--|---------------------------|--------------------------|--------------------------|
| $\frac{3}{4}$ x $1\frac{1}{32}$ x $\frac{3}{32}$ | .40                       | 1.00                     | 20                       |
| 1 x $\frac{1}{2}$ x $\frac{1}{8}$                | .83                       | .50                      | 20                       |
| $1\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{16}$  | 1.36                      | .25                      | 20                       |
| 2 x $\frac{5}{8}$ x $\frac{1}{4}$                | 2.11                      | .25                      | 20                       |
| 2 x 1 x $\frac{1}{8}$                            | 1.78                      | .40                      | 20                       |
| 2 x 1 x $\frac{3}{16}$                           | 2.60                      | .25                      | 20                       |
| $2\frac{1}{2}$ x $\frac{5}{8}$ x $\frac{3}{16}$  | 2.27                      | .25                      | 20                       |

Cutting to special lengths, see extras in back of book.

## TEES

### BAR SIZES — SOFT STEEL

| Flange<br>Inches | Size<br>Stem<br>Inches | Thick-<br>ness<br>Inches | Wt.<br>per Ft.<br>Lbs. | Net<br>Extra<br>for Size | Stock<br>Lengths<br>Feet |
|------------------|------------------------|--------------------------|------------------------|--------------------------|--------------------------|
| 1                | 1                      | $\frac{1}{8}$            | .89                    | .70                      | 20                       |
| $1\frac{1}{2}$   | $1\frac{1}{2}$         | $\frac{1}{4}$            | 2.47                   | .30                      | 20                       |
| 2                | 2                      | $\frac{1}{4}$            | 3.56                   | .30                      | 20                       |
| $2\frac{1}{2}$   | $2\frac{1}{2}$         | $\frac{5}{16}$           | 5.50                   | .30                      | 20                       |

Cutting to special lengths, see extras in back of book.



# ANGLES

## STRUCTURAL SIZES

### Manufacturers' Standard Specifications

| Size<br>Inches |         |        | Weight<br>per Ft.<br>Lbs. | Net<br>Extra<br>for Size | Stock<br>Lengths<br>Feet |
|----------------|---------|--------|---------------------------|--------------------------|--------------------------|
| 3              | x 2     | x 1/4  | 4.1                       | Base                     | 55-65                    |
| 3              | x 2     | x 5/16 | 5.0                       | "                        | 55-65                    |
| 3              | x 2     | x 3/8  | 5.9                       | "                        | 55-65                    |
| 3              | x 2 1/2 | x 1/4  | 4.5                       | "                        | 55-65                    |
| 3              | x 2 1/2 | x 5/16 | 5.6                       | "                        | 55-65                    |
| 3              | x 2 1/2 | x 3/8  | 6.6                       | "                        | 55-65                    |
| 3              | x 3     | x 1/4  | 4.9                       | "                        | 55-65                    |
| 3              | x 3     | x 5/16 | 6.1                       | "                        | 55-65                    |
| 3              | x 3     | x 3/8  | 7.2                       | "                        | 55-65                    |
| 3              | x 3     | x 1/2  | 9.4                       | "                        | 55-65                    |
| 3 1/2          | x 2 1/2 | x 1/4  | 4.9                       | "                        | 55-65                    |
| 3 1/2          | x 2 1/2 | x 5/16 | 6.1                       | "                        | 55-65                    |
| 3 1/2          | x 2 1/2 | x 3/8  | 7.2                       | "                        | 55-65                    |
| 3 1/2          | x 3     | x 1/4  | 5.4                       | "                        | 55-65                    |
| 3 1/2          | x 3     | x 5/16 | 6.6                       | "                        | 55-65                    |
| 3 1/2          | x 3     | x 3/8  | 7.9                       | "                        | 55-65                    |
| 3 1/2          | x 3 1/2 | x 1/4  | 5.8                       | "                        | 55-65                    |
| 3 1/2          | x 3 1/2 | x 5/16 | 7.2                       | "                        | 55-65                    |
| 3 1/2          | x 3 1/2 | x 3/8  | 8.5                       | "                        | 55-65                    |
| 3 1/2          | x 3 1/2 | x 1/2  | 11.1                      | "                        | 55-65                    |
| 4              | x 3     | x 1/4  | 5.8                       | "                        | 55-65                    |
| 4              | x 3     | x 5/16 | 7.2                       | "                        | 55-65                    |
| 4              | x 3     | x 3/8  | 8.5                       | "                        | 55-65                    |
| 4              | x 3     | x 1/2  | 11.1                      | "                        | 55-65                    |
| 4              | x 3 1/2 | x 5/16 | 7.7                       | "                        | 55-65                    |
| 4              | x 3 1/2 | x 3/8  | 9.1                       | "                        | 55-65                    |
| 4              | x 4     | x 1/4  | 6.6                       | "                        | 55-65                    |
| 4              | x 4     | x 5/16 | 8.2                       | "                        | 55-65                    |
| 4              | x 4     | x 3/8  | 9.8                       | "                        | 55-65                    |
| 4              | x 4     | x 1/2  | 12.8                      | "                        | 55-65                    |
| 5              | x 3     | x 5/16 | 8.2                       | "                        | 55-65                    |
| 5              | x 3     | x 3/8  | 9.8                       | "                        | 55-65                    |
| 5              | x 3     | x 1/2  | 12.8                      | "                        | 55-65                    |
| 5              | x 3 1/2 | x 5/16 | 8.7                       | "                        | 55-65                    |
| 5              | x 3 1/2 | x 3/8  | 10.4                      | "                        | 55-65                    |
| 5              | x 5     | x 3/8  | 12.3                      | "                        | 55-65                    |
| 6              | x 3 1/2 | x 3/8  | 11.7                      | "                        | 55-65                    |
| 6              | x 3 1/2 | x 1/2  | 15.3                      | "                        | 55-65                    |
| 6              | x 4     | x 3/8  | 12.3                      | "                        | 55-65                    |
| 6              | x 4     | x 1/2  | 16.2                      | "                        | 55-65                    |
| 6              | x 6     | x 3/8  | 14.9                      | "                        | 55-65                    |
| 6              | x 6     | x 7/16 | 17.2                      | "                        | 55-65                    |
| 6              | x 6     | x 1/2  | 19.6                      | "                        | 55-65                    |
| 6              | x 6     | x 3/4  | 28.7                      | "                        | 55-65                    |
| 7              | x 4     | x 1/2  | 17.9                      | .10                      | 55-65                    |
| 8              | x 6     | x 1/2  | 23.0                      | .10                      | 55-65                    |
| 8              | x 8     | x 1/2  | 26.4                      | .10                      | 55-65                    |

All sizes cut to 5 feet and longer without charge. Under 5 feet subject to extras in back of book.

## ANGLES

## BAR SIZES — SOFT STEEL

| Size—Inches                                      | Wt.<br>per Ft.<br>Lbs. | Net<br>Extra<br>for Size | Stock<br>Lengths<br>Feet |
|--|------------------------|--------------------------|--------------------------|
| $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{8}$    | .38                    | 2.20                     | 20                       |
| $\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{8}$    | .59                    | .60                      | 20                       |
| $\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{16}$   | .84                    | .45                      | 20                       |
| $\frac{7}{8}$ x $\frac{7}{8}$ x $\frac{1}{8}$    | .70                    | .40                      | 20                       |
| 1 x 1 x $\frac{1}{8}$                            | .80                    | .30                      | 20                       |
| 1 x 1 x $\frac{3}{16}$                           | 1.16                   | .25                      | 20                       |
| 1 x 1 x $\frac{1}{4}$                            | 1.49                   | .25                      | 20                       |
| $1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{1}{8}$  | 1.01                   | .30                      | 20                       |
| $1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{3}{16}$ | 1.48                   | .25                      | 20                       |
| $1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{1}{4}$  | 1.92                   | .25                      | 20                       |
| $1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{1}{8}$  | 1.23                   | .25                      | 20                       |
| $1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{3}{16}$ | 1.80                   | .15                      | 20                       |
| $1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{1}{4}$  | 2.34                   | .15                      | 20                       |
| $1\frac{3}{4}$ x $1\frac{3}{4}$ x $\frac{3}{16}$ | 2.12                   | .15                      | 20                       |
| $1\frac{3}{4}$ x $1\frac{3}{4}$ x $\frac{1}{4}$  | 2.77                   | .15                      | 20                       |
| 2 x 2 x $\frac{1}{8}$                            | 1.65                   | .25                      | 20                       |
| 2 x 2 x $\frac{3}{16}$                           | 2.44                   | .15                      | 20                       |
| 2 x 2 x $\frac{1}{4}$                            | 3.19                   | .15                      | 20                       |
| 2 x 2 x $\frac{5}{16}$                           | 3.92                   | .15                      | 20                       |
| 2 x 2 x $\frac{3}{8}$                            | 4.70                   | .15                      | 20                       |
| $2\frac{1}{2}$ x 2 x $\frac{3}{16}$              | 2.75                   | .15                      | 20                       |
| $2\frac{1}{2}$ x 2 x $\frac{1}{4}$               | 3.62                   | .15                      | 20-40                    |
| $2\frac{1}{2}$ x 2 x $\frac{5}{16}$              | 4.50                   | .15                      | 20-40                    |
| $2\frac{1}{2}$ x $2\frac{1}{2}$ x $\frac{3}{16}$ | 3.07                   | .15                      | 20                       |
| $2\frac{1}{2}$ x $2\frac{1}{2}$ x $\frac{1}{4}$  | 4.10                   | .15                      | 20-40                    |
| $2\frac{1}{2}$ x $2\frac{1}{2}$ x $\frac{5}{16}$ | 5.00                   | .15                      | 20-40                    |
| $2\frac{1}{2}$ x $2\frac{1}{2}$ x $\frac{3}{8}$  | 5.90                   | .15                      | 20-40                    |

Cutting to special lengths, see extras in back of book.

## “ALL-WAY-GRIP” ROLLED STEEL FLOOR PLATES

| Size<br>Inches      | Weight per<br>Sq. Ft. | Net Extra<br>For Size | Stock<br>Lgths. Ft. |
|---------------------|-----------------------|-----------------------|---------------------|
| $\frac{3}{16}$ x 36 | 8.70                  | .20                   | 20                  |
| 48                  | 8.70                  | .20                   | 20                  |
| 60                  | 8.70                  | .20                   | 20                  |
| 72                  | 8.70                  | .20                   | 15                  |
| $\frac{1}{4}$ x 36  | 11.25                 | Base                  | 20                  |
| 48                  | 11.25                 | “                     | 20                  |
| 60                  | 11.25                 | “                     | 20                  |
| $\frac{5}{16}$ x 36 | 13.80                 | “                     | 20                  |
| 48                  | 13.80                 | “                     | 20                  |
| 60                  | 13.80                 | “                     | 20                  |
| $\frac{3}{8}$ x 36  | 16.35                 | “                     | 20                  |
| 48                  | 16.35                 | “                     | 20                  |
| 60                  | 16.35                 | “                     | 20                  |
| 72                  | 16.35                 | “                     | 15                  |

Thickness does not include the diamond.

# STEEL PLATES

UNIVERSAL MILL AND SHEARED  
Manufacturers' Standard Specifications

| Size<br>in<br>Inches | Est.<br>Wt. per<br>Ft. | Net<br>Extra<br>for Size | Stock<br>Lgths.<br>Ft. | Size<br>in<br>Inches | Est.<br>Wt. per<br>Ft. | Net<br>Extra<br>for Size | Stock<br>Lgths.<br>Ft. |
|----------------------|------------------------|--------------------------|------------------------|----------------------|------------------------|--------------------------|------------------------|
| $\frac{3}{16}$ x 7   | to 22—                 | See                      | Bands                  | $\frac{3}{8}$ x 18   | 22.95                  | Base                     | 20                     |
|                      |                        |                          |                        | 20                   | 25.50                  | "                        | 20                     |
| $\frac{3}{16}$ x 24  | to 48—                 | See                      | Sheets                 | 24                   | 30.60                  | "                        | 20                     |
| $\frac{3}{16}$ x 54  | 34.43                  | .20                      | 12                     | 30                   | 38.25                  | "                        | 20                     |
| 60                   | 38.25                  | .20                      | 12                     | 36                   | 45.90                  | "                        | 20                     |
| 72                   | 45.90                  | .20                      | 12                     | 42                   | 53.55                  | "                        | 20                     |
| 84                   | 53.55                  | .70                      | 12                     | 48                   | 61.20                  | "                        | 20                     |
|                      |                        |                          |                        | 54                   | 68.89                  | "                        | 12                     |
| $\frac{1}{4}$ x 7    | 5.95                   | Base                     | 20                     | 60                   | 76.50                  | "                        | 12                     |
| 8                    | 6.80                   | "                        | 20                     | 72                   | 91.80                  | "                        | 12                     |
| 9                    | 7.65                   | "                        | 20                     | 84                   | 107.10                 | "                        | 12                     |
| 10                   | 8.50                   | "                        | 20                     |                      |                        |                          |                        |
| 12                   | 10.20                  | "                        | 20                     | $\frac{7}{16}$ x 8   | 11.90                  | "                        | 20                     |
| 14                   | 11.90                  | "                        | 20                     | 10                   | 14.88                  | "                        | 20                     |
| 16                   | 13.60                  | "                        | 20                     | 16                   | 23.80                  | "                        | 20                     |
| 18                   | 15.30                  | "                        | 20                     | 24                   | 35.70                  | "                        | 20                     |
| 20                   | 17.00                  | "                        | 20                     |                      |                        |                          |                        |
| 24                   | 20.40                  | "                        | 20                     | $\frac{1}{2}$ x 7    | 11.90                  | "                        | 20                     |
| 30                   | 25.50                  | "                        | 20                     | 8                    | 13.60                  | "                        | 20                     |
| 36                   | 30.60                  | "                        | 20                     | 9                    | 15.30                  | "                        | 20                     |
| 42                   | 35.70                  | "                        | 20                     | 10                   | 17.00                  | "                        | 20                     |
| 48                   | 40.80                  | "                        | 20                     | 12                   | 20.40                  | "                        | 20                     |
| 54                   | 45.90                  | "                        | 12                     | 14                   | 23.80                  | "                        | 20                     |
| 60                   | 51.00                  | "                        | 12                     | 16                   | 27.20                  | "                        | 20                     |
| 72                   | 61.20                  | "                        | 12                     | 18                   | 30.60                  | "                        | 20                     |
| 84                   | 71.40                  | "                        | 12                     | 20                   | 34.00                  | "                        | 20                     |
|                      |                        |                          |                        | 24                   | 40.80                  | "                        | 20                     |
| $\frac{5}{16}$ x 7   | 7.44                   | "                        | 20                     | 30                   | 51.00                  | "                        | 20                     |
| 8                    | 8.50                   | "                        | 20                     | 36                   | 61.20                  | "                        | 20                     |
| 9                    | 9.56                   | "                        | 20                     | 42                   | 71.40                  | "                        | 20                     |
| 10                   | 10.63                  | "                        | 20                     | 48                   | 81.60                  | "                        | 20                     |
| 12                   | 12.75                  | "                        | 20                     | 54                   | 91.80                  | "                        | 12                     |
| 14                   | 14.88                  | "                        | 20                     | 60                   | 102.00                 | "                        | 12                     |
| 16                   | 17.00                  | "                        | 20                     | 72                   | 122.40                 | "                        | 12                     |
| 18                   | 19.13                  | "                        | 20                     |                      |                        |                          |                        |
| 20                   | 21.25                  | "                        | 20                     | $\frac{5}{8}$ x 8    | 17.00                  | "                        | 20                     |
| 24                   | 25.50                  | "                        | 20                     | 9                    | 19.13                  | "                        | 20                     |
| 30                   | 31.88                  | "                        | 20                     | 10                   | 21.25                  | "                        | 20                     |
| 36                   | 38.25                  | "                        | 20                     | 12                   | 25.50                  | "                        | 20                     |
| 42                   | 44.63                  | "                        | 20                     | 16                   | 34.00                  | "                        | 20                     |
| 48                   | 51.00                  | "                        | 20                     | 20                   | 42.50                  | "                        | 20                     |
| 54                   | 57.38                  | "                        | 12                     | 24                   | 51.00                  | "                        | 20                     |
| 60                   | 63.75                  | "                        | 12                     | 30                   | 63.75                  | "                        | 12                     |
| 72                   | 76.50                  | "                        | 12                     | 36                   | 76.50                  | "                        | 12                     |
| 84                   | 89.25                  | "                        | 12                     | 42                   | 89.25                  | "                        | 12                     |
|                      |                        |                          |                        | 48                   | 102.00                 | "                        | 12                     |
| $\frac{3}{8}$ x 7    | 8.93                   | "                        | 20                     | 54                   | 114.75                 | "                        | 12                     |
| 8                    | 10.20                  | "                        | 20                     | 60                   | 127.50                 | "                        | 12                     |
| 9                    | 11.48                  | "                        | 20                     |                      |                        |                          |                        |
| 10                   | 12.75                  | "                        | 20                     | $\frac{3}{4}$ x 7    | 17.85                  | "                        | 20                     |
| 12                   | 15.30                  | "                        | 20                     | 8                    | 20.40                  | "                        | 20                     |
| 14                   | 17.85                  | "                        | 20                     | 9                    | 22.95                  | "                        | 20                     |
| 16                   | 20.40                  | "                        | 20                     | 10                   | 25.50                  | "                        | 20                     |

5 feet or longer cut without charge. For additional cutting, see extras in back of book.



## STEEL PLATES

UNIVERSAL MILL AND SHEARED  
Manufacturers' Standard Specifications

| Size<br>in<br>Inches | Est.<br>Wt. per<br>Ft. | Net<br>Extra<br>for Size | Stock<br>Lgths.<br>Ft. | Size<br>in<br>Inches | Est.<br>Wt. per<br>Ft. | Net<br>Extra<br>for Size | Stock<br>Lgths.<br>Ft. |
|----------------------|------------------------|--------------------------|------------------------|----------------------|------------------------|--------------------------|------------------------|
| $\frac{3}{4}$ x 12   | 30.60                  | Base                     | 20                     | 1 x 20               | 68.00                  | Base                     | 20                     |
| 14                   | 35.70                  | "                        | 20                     | 24                   | 81.60                  | "                        | 20                     |
| 16                   | 40.80                  | "                        | 20                     | 30                   | 102.00                 | "                        | 12                     |
| 18                   | 45.90                  | "                        | 20                     | 36                   | 122.40                 | "                        | 12                     |
| 24                   | 61.20                  | "                        | 20                     | 48                   | 163.20                 | "                        | 12                     |
| 30                   | 76.50                  | "                        | 12                     | 72                   | 244.80                 | "                        | 12                     |
| 36                   | 91.80                  | "                        | 12                     |                      |                        |                          |                        |
| 42                   | 107.10                 | "                        | 12                     | $1\frac{1}{8}$ x 48  | 183.60                 | "                        | 12                     |
| 48                   | 122.40                 | "                        | 12                     | $1\frac{1}{4}$ x 48  | 204.00                 | "                        | 12                     |
| 72                   | 183.60                 | "                        | 12                     | $1\frac{3}{8}$ x 48  | 224.40                 | "                        | 12                     |
| $\frac{7}{8}$ x 48   | 142.80                 | "                        | 12                     | $1\frac{1}{2}$ x 48  | 244.80                 | "                        | 12                     |
| 72                   | 214.20                 | "                        | 12                     | $1\frac{5}{8}$ x 48  | 265.20                 | "                        | 12                     |
| 1 x 7                | 23.80                  | "                        | 20                     | $1\frac{3}{4}$ x 48  | 285.60                 | "                        | 12                     |
| 8                    | 27.20                  | "                        | 20                     | $1\frac{7}{8}$ x 48  | 306.00                 | "                        | 12                     |
| 9                    | 30.60                  | "                        | 20                     | 2 x 48               | 326.40                 | .10                      | 12                     |
| 10                   | 34.00                  | "                        | 20                     | $2\frac{1}{2}$ x 48  | 408.00                 | .10                      | 12                     |
| 12                   | 40.80                  | "                        | 20                     | $2\frac{3}{4}$ x 48  | 448.80                 | .10                      | 12                     |
| 14                   | 47.60                  | "                        | 20                     | 3 x 48               | 489.60                 | .10                      | 12                     |
| 16                   | 54.40                  | "                        | 20                     | $3\frac{1}{2}$ x 48  | 571.20                 | .10                      | 6                      |
| 18                   | 61.20                  | "                        | 20                     | 4 x 48               | 652.80                 | .10                      | 6                      |
|                      |                        |                          |                        | $4\frac{1}{2}$ x 48  | 734.40                 | .15                      | 6                      |

5 feet or longer cut without charge. For additional cutting, see extras in back of book.

## FLAME CUTTING

Our modern flame cutting equipment is capable of producing rectangular, circular and irregular shapes in thicknesses up to 12".

Clean, almost machine-like cuts, close to dimensions furnished, giving you a minimum amount of waste in machining and finishing.

Prices furnished on request.

## HEAVY HOT ROLLED SHEETS

(Blue Annealed)

| Size<br>Inches            | Est. Wt.<br>Per Sheet | Net Extra<br>For Size |
|---------------------------|-----------------------|-----------------------|
| $\frac{3}{16}$ x 24 x 240 | 306.0                 | Base                  |
| 30 x 240                  | 382.6                 | "                     |
| 36 x 240                  | 459.0                 | "                     |
| 42 x 240                  | 535.6                 | "                     |
| 48 x 240                  | 612.0                 | "                     |
| No. 10 x 30 x 96          | 112.5                 | Base                  |
| 30 x 120                  | 140.6                 | "                     |
| 36 x 96                   | 135.0                 | "                     |
| 36 x 120                  | 168.8                 | "                     |
| 36 x 144                  | 202.5                 | "                     |
| 48 x 96                   | 180.0                 | "                     |
| 48 x 120                  | 225.0                 | "                     |
| 60 x 144                  | 337.5                 | .15                   |
| No. 11 x 30 x 96          | 100.0                 | .05                   |
| 30 x 144                  | 150.0                 | .05                   |
| 36 x 144                  | 180.0                 | .05                   |
| 48 x 144                  | 240.0                 | .05                   |
| 60 x 144                  | 300.0                 | .20                   |
| No. 12 x 30 x 96          | 87.5                  | .10                   |
| 36 x 96                   | 105.0                 | .10                   |
| 48 x 144                  | 210.0                 | .10                   |
| 60 x 144                  | 262.5                 | .25                   |
| No. 14 x 30 x 96          | 62.5                  | .20                   |
| 36 x 96                   | 75.0                  | .20                   |
| 48 x 120                  | 125.0                 | .20                   |
| 48 x 144                  | 150.0                 | .20                   |
| 60 x 144                  | 187.5                 | .35                   |
| No. 16 x 30 x 96          | 50.0                  | .35                   |
| 36 x 96                   | 60.0                  | .35                   |
| 48 x 96                   | 80.0                  | .35                   |
| 48 x 120                  | 100.0                 | .35                   |
| 48 x 144                  | 120.0                 | .35                   |
| 60 x 120                  | 125.0                 | .50                   |
| 60 x 144                  | 150.0                 | .50                   |

For cutting extras, see back of book.

## HOT ROLLED (Soft) SHEET COPPER

Plain

| Oz. Per<br>Sq. Ft. | Size<br>Inches | Est. Wt.<br>Per Sheet | Equiv. in<br>Stubbs Gauge |
|--------------------|----------------|-----------------------|---------------------------|
| 16                 | 30 x 96        | 20.00                 | 24                        |
| 16                 | 36 x 96        | 24.00                 | 24                        |

## COLD ROLLED (Hard) SHEET COPPER

Plain

|    |         |       |    |
|----|---------|-------|----|
| 16 | 30 x 96 | 20.00 | 24 |
| 16 | 36 x 96 | 24.00 | 24 |

## SOFT ROLL COPPER

In 50 and 100 Ft. Rolls

| Oz. Per<br>Sq. Ft. | Width<br>Inches | Est. Wt.<br>Per Lin. Ft. | Equiv. in<br>Stubbs Gauge |
|--------------------|-----------------|--------------------------|---------------------------|
| 16                 | 14              | 1.17                     | 24                        |
| 16                 | 20              | 1.67                     | 24                        |

**HOT ROLLED ANNEALED SHEETS**

(One Pass Cold Rolled)

| Size<br>Inches   | Est. Wt.<br>Per Sheet | Net Extra<br>For Size | Sheets Per<br>Bundle |
|------------------|-----------------------|-----------------------|----------------------|
| No. 18 x 30 x 96 | 40.0                  | — .15                 | 4                    |
| 30 x 120         | 50.0                  | — .15                 | 3                    |
| 36 x 96          | 48.0                  | — .15                 | 3                    |
| 36 x 120         | 60.0                  | — .15                 | 2                    |
| 48 x 96          | 64.0                  | — .15                 | 3                    |
| No. 20 x 24 x 96 | 24.0                  | — .10                 | 6                    |
| 30 x 96          | 30.0                  | — .10                 | 5                    |
| 36 x 96          | 36.0                  | — .10                 | 4                    |
| 36 x 120         | 45.0                  | — .10                 | 3                    |
| No. 22 x 30 x 96 | 25.0                  | — .05                 | 6                    |
| 36 x 96          | 30.0                  | — .05                 | 5                    |
| No. 24 x 30 x 96 | 20.0                  | Base                  | 7                    |
| 36 x 96          | 24.0                  | "                     | 6                    |
| No. 26 x 30 x 96 | 15.0                  | + .20                 | 10                   |
| 36 x 96          | 18.0                  | + .20                 | 8                    |
| No. 28 x 30 x 96 | 12.5                  | + .40                 | 12                   |
| No. 30 x 24 x 96 | 8.0                   | + .60                 | 18                   |
| 30 x 96          | 10.0                  | + .60                 | 15                   |
| 36 x 96          | 12.0                  | + .80                 | 12                   |

For cutting extras, see back of book.

**GALVANIZED SHEETS**

| Size<br>Inches    | Est. Wt.<br>per Sheet | Net Extra<br>For Size | Sheets Per<br>Bundle |
|-------------------|-----------------------|-----------------------|----------------------|
| No. 12 x 48 x 120 | 181.2                 | — .20                 | ..                   |
| No. 14 x 48 x 120 | 131.2                 | — .10                 | ..                   |
| No. 16 x 48 x 120 | 106.2                 | — .05                 | ..                   |
| No. 18 x 30 x 96  | 43.1                  | — .15                 | 4                    |
| 36 x 96           | 51.8                  | — .15                 | 3                    |
| No. 20 x 30 x 96  | 33.1                  | — .10                 | 5                    |
| 36 x 96           | 39.8                  | — .10                 | 4                    |
| No. 22 x 30 x 96  | 28.1                  | — .05                 | 5                    |
| 36 x 96           | 33.8                  | — .05                 | 5                    |
| 48 x 96           | 45.0                  | + .60                 | 3                    |
| No. 24 x 24 x 96  | 18.5                  | Base                  | 8                    |
| 28 x 96           | 21.6                  | "                     | 7                    |
| 30 x 96           | 23.1                  | "                     | 7                    |
| 36 x 96           | 27.8                  | "                     | 6                    |
| 36 x 120          | 34.7                  | "                     | 5                    |
| 48 x 96           | 37.0                  | + .75                 | 4                    |
| No. 26 x 26 x 96  | 15.7                  | + .25                 | 10                   |
| 28 x 96           | 16.9                  | + .25                 | 9                    |
| 30 x 96           | 18.1                  | + .25                 | 8                    |
| 36 x 96           | 21.8                  | + .25                 | 7                    |
| No. 28 x 26 x 96  | 13.5                  | + .50                 | 11                   |
| 28 x 96           | 14.6                  | + .50                 | 10                   |
| 30 x 96           | 15.6                  | + .50                 | 10                   |
| 32 x 96           | 16.6                  | + .50                 | 9                    |
| 36 x 96           | 18.8                  | + .70                 | 8                    |
| 36 x 120          | 23.4                  | + .70                 | 7                    |
| No. 30 x 30 x 96  | 13.1                  | + 1.00                | 11                   |
| 36 x 96           | 15.8                  | + 1.20                | 10                   |

For cutting extras, see back of book.



# GALVANIZED CORRUGATED SHEETS

2½" Corrugations

| Size<br>Inches   | Est. Wt.<br>per Sheet | No. Sheets<br>Per Sq. | Est. Wt.<br>Per Sq. | Sheets<br>Per<br>Bundle |
|------------------|-----------------------|-----------------------|---------------------|-------------------------|
| No. 18 x 26 x 72 | 30.2                  | 7.692                 | 232                 | 5                       |
| 26 x 96          | 40.2                  | 5.769                 | 232                 | 4                       |
| 26 x 120         | 50.3                  | 4.616                 | 232                 | 3                       |
| No. 22 x 26 x 72 | 19.7                  | 7.692                 | 151                 | 6                       |
| 26 x 84          | 23.0                  | 6.593                 | 151                 | 6                       |
| 26 x 96          | 26.2                  | 5.769                 | 151                 | 6                       |
| 26 x 108         | 29.5                  | 5.128                 | 151                 | 6                       |
| 26 x 120         | 32.8                  | 4.616                 | 151                 | 6                       |
| 26 x 144         | 39.3                  | 3.846                 | 151                 | 6                       |
| No. 24 x 26 x 72 | 16.2                  | 7.692                 | 125                 | 8                       |
| 26 x 84          | 18.9                  | 6.593                 | 125                 | 8                       |
| 26 x 96          | 21.6                  | 5.769                 | 125                 | 8                       |
| 26 x 108         | 24.3                  | 5.128                 | 125                 | 8                       |
| 26 x 120         | 27.0                  | 4.616                 | 125                 | 8                       |
| No. 26 x 26 x 72 | 12.7                  | 7.692                 | 98                  | 10                      |
| 26 x 84          | 14.8                  | 6.593                 | 98                  | 10                      |
| 26 x 96          | 16.9                  | 5.769                 | 98                  | 10                      |
| 26 x 108         | 19.0                  | 5.128                 | 98                  | 10                      |
| 26 x 120         | 21.1                  | 4.616                 | 98                  | 10                      |
| No. 28 x 26 x 96 | 14.6                  | 5.769                 | 84                  | 10                      |
| 26 x 120         | 18.2                  | 4.616                 | 84                  | 10                      |

Corrugated Sheets are always sold by the square.

# GALVANIZED TONCAN SHEETS

| Size<br>Inches    | Est. Wt.<br>Per Sheet | Net Extra<br>For Size | Sheets Per<br>Bundle |
|-------------------|-----------------------|-----------------------|----------------------|
| No. 14 x 48 x 120 | 131.2                 | — .10                 | ----                 |
| No. 16 x 48 x 120 | 106.2                 | — .05                 | ----                 |
| No. 18 x 30 x 96  | 43.1                  | — .15                 | 4                    |
| 36 x 96           | 51.8                  | — .15                 | 3                    |
| No. 20 x 30 x 96  | 33.1                  | — .10                 | 5                    |
| 36 x 96           | 39.8                  | — .10                 | 4                    |
| No. 22 x 30 x 96  | 28.1                  | — .05                 | 5                    |
| 36 x 96           | 33.8                  | — .05                 | 5                    |
| No. 24 x 30 x 96  | 23.1                  | Base                  | 7                    |
| 36 x 96           | 27.8                  | "                     | 6                    |
| No. 26 x 24 x 96  | 14.5                  | + .25                 | 10                   |
| 30 x 96           | 18.1                  | + .25                 | 8                    |
| 36 x 96           | 21.8                  | + .25                 | 7                    |
| No. 28 x 24 x 96  | 12.5                  | + .50                 | 12                   |
| 30 x 96           | 15.6                  | + .50                 | 10                   |
| 36 x 96           | 18.8                  | + .70                 | 8                    |

For cutting extras, see back of book.

# UNIFORM BLUE STOVE PIPE SHEETS

| Size<br>Inches    | Est. Wt.<br>Per Sheet | Net Extra<br>For Size | Sheets Per<br>Bundle |
|-------------------|-----------------------|-----------------------|----------------------|
| No. 26 x 24 x 101 | 12.6                  | .20                   | 12                   |
| No. 27 x 24 x 101 | 11.6                  | .30                   | 12                   |
| No. 28 x 24 x 101 | 10.5                  | .40                   | 14                   |

**ROUNDS**

Soft Steel

| Size<br>Inches  | Wt. per Ft.<br>Lbs. | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|-----------------|---------------------|-----------------------|----------------------|
| $\frac{3}{16}$  | .09                 | 2.00                  | 16                   |
| $\frac{1}{4}$   | .17                 | 1.00                  | 16                   |
| $\frac{5}{16}$  | .26                 | .70                   | 16                   |
| * $\frac{3}{8}$ | .38                 | .40                   | 20                   |
| $\frac{7}{16}$  | .51                 | .30                   | 20                   |
| * $\frac{1}{2}$ | .67                 | .20                   | 20                   |
| $\frac{9}{16}$  | .85                 | .15                   | 20                   |
| $\frac{5}{8}$   | 1.04                | .10                   | 20                   |
| $\frac{11}{16}$ | 1.26                | .10                   | 20                   |
| $\frac{3}{4}$   | 1.50                | Base                  | 20                   |
| $\frac{7}{8}$   | 2.04                | "                     | 20                   |
| 1               | 2.67                | "                     | 20                   |
| $1\frac{1}{8}$  | 3.38                | "                     | 20                   |
| $1\frac{1}{4}$  | 4.17                | "                     | 20                   |
| $1\frac{3}{8}$  | 5.05                | "                     | 20                   |
| $1\frac{1}{2}$  | 6.01                | "                     | 20                   |
| $1\frac{5}{8}$  | 7.05                | .10                   | 20                   |
| $1\frac{3}{4}$  | 8.18                | .10                   | 20                   |
| 2               | 10.68               | .10                   | 20                   |
| $2\frac{1}{4}$  | 13.52               | .15                   | 20                   |
| $2\frac{1}{2}$  | 16.69               | .15                   | 20                   |
| $2\frac{5}{8}$  | 18.40               | .20                   | 20                   |
| $2\frac{3}{4}$  | 20.20               | .20                   | 20                   |
| 3               | 24.03               | .20                   | 20                   |
| $3\frac{1}{4}$  | 28.21               | .25                   | 20                   |
| $3\frac{1}{2}$  | 32.71               | .25                   | 20                   |
| 4               | 42.73               | .25                   | 20                   |
| $4\frac{1}{4}$  | 48.23               | .25                   | 20                   |
| $4\frac{1}{2}$  | 54.08               | .25                   | 20                   |

For cutting extras, see back of book.

\*Carried in stock in galvanized in 20 foot lengths.

**ROUNDS**

O. H. 30-40 Carbon

| Size<br>Inches | Wt. per Ft.<br>Lbs. | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|----------------|---------------------|-----------------------|----------------------|
| $4\frac{3}{4}$ | 60.25               | .35                   | 20                   |
| 5              | 66.76               | .35                   | 16                   |
| $5\frac{1}{2}$ | 80.78               | .45                   | 16                   |
| $5\frac{3}{4}$ | 88.29               | .55                   | 16                   |
| 6              | 96.13               | .55                   | 16                   |

For cutting extras, see back of book.

**FORGING QUALITY BILLETS**

| Size<br>Inches | Weight<br>per Ft.<br>Lbs. | Net<br>Extra<br>for Size | Stock Lengths—Ft. |                 |                 |
|----------------|---------------------------|--------------------------|-------------------|-----------------|-----------------|
|                |                           |                          | 30-40<br>Carbon   | 50-60<br>Carbon | 60-70<br>Carbon |
| 4 x 4          | 54.4                      | .10                      | 4-8               | 4-8             | 4-8             |
| 5 x 5          | 85.0                      | .10                      | 4-8               |                 |                 |
| 6 x 4          | 81.6                      | .10                      | 4-8               |                 | 4-8             |
| 6 x 6          | 122.4                     | Base                     | 4-8               |                 | 4-8             |
| 8 x 4          | 108.8                     | .10                      | 4-8               |                 | 4-8             |
| 8 x 8          | 217.6                     | Base                     | 4-8               |                 | 4-8             |

# SOFT STEEL SQUARES

| Size<br>Inches | Wt. per Ft.<br>Lbs. | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|----------------|---------------------|-----------------------|----------------------|
| 1/4            | .21                 | 1.00                  | 16                   |
| 3/8            | .48                 | .40                   | 20                   |
| 7/16           | .65                 | .30                   | 20                   |
| 1/2            | .85                 | .20                   | 20                   |
| 5/8            | 1.33                | .10                   | 20                   |
| 11/16          | 1.61                | .10                   | 20                   |
| 3/4            | 1.91                | Base                  | 20                   |
| 7/8            | 2.60                | "                     | 20                   |
| 1              | 3.40                | "                     | 20                   |
| 1 1/8          | 4.30                | "                     | 20                   |
| 1 1/4          | 5.31                | "                     | 20                   |
| 1 1/2          | 7.65                | "                     | 20                   |
| 1 3/4          | 10.41               | .10                   | 20                   |
| 2              | 13.60               | .10                   | 20                   |
| 2 1/4          | 17.21               | .15                   | 20                   |
| 2 1/2          | 21.25               | .15                   | 20                   |
| 2 3/4          | 25.71               | .20                   | 20                   |
| 3              | 30.60               | .20                   | 20                   |
| 4              | 54.40               | .25                   | 20                   |

# HOT ROLLED STRIP STEEL (BANDS)

| Size<br>Inches | Wt. per Ft.<br>Lbs. | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|----------------|---------------------|-----------------------|----------------------|
| 1/8 x 1/2      | .21                 | 1.10                  | 16                   |
| 5/8            | .27                 | .75                   | 16                   |
| 3/4            | .32                 | .60                   | 16                   |
| 7/8            | .37                 | .50                   | 16                   |
| 1              | .43                 | .40                   | 16                   |
| 1 1/8          | .48                 | .40                   | 16                   |
| 1 1/4          | .53                 | .40                   | 16                   |
| 1 1/2          | .64                 | .35                   | 16                   |
| 1 3/4          | .74                 | .35                   | 16                   |
| 2              | .85                 | .35                   | 16                   |
| 2 1/4          | .96                 | .30                   | 16                   |
| 2 1/2          | 1.06                | .30                   | 16                   |
| 2 3/4          | 1.17                | .25                   | 16                   |
| 3              | 1.28                | .25                   | 16                   |
| 3 1/2          | 1.49                | .20                   | 16                   |
| 4              | 1.70                | .20                   | 16                   |
| 5              | 2.13                | .15                   | 16                   |
| 6              | 2.55                | .15                   | 16                   |
| 3/16 x 3/4     | .48                 | .55                   | 16                   |
| 7/8            | .56                 | .45                   | 16                   |
| 1              | .64                 | .35                   | 16                   |
| 1 1/4          | .80                 | .35                   | 16                   |
| 1 1/2          | .96                 | .30                   | 16                   |
| 1 3/4          | 1.12                | .30                   | 16                   |
| 2              | 1.28                | .30                   | 16                   |
| 2 1/4          | 1.43                | .25                   | 16                   |
| 2 1/2          | 1.59                | .25                   | 16                   |
| 3              | 1.91                | .20                   | 16                   |
| 4              | 2.55                | .15                   | 16                   |
| 4 1/2          | 2.87                | .10                   | 16                   |
| 5              | 3.19                | .10                   | 16                   |
| 6              | 3.83                | .10                   | 16                   |
| 8              | 5.10                | .05                   | 20                   |
| 10             | 6.38                | .05                   | 20                   |
| 12             | 7.65                | .05                   | 20                   |
| 16             | 10.20               | Base                  | 20                   |
| 18             | 11.48               | "                     | 20                   |
| 20             | 12.75               | "                     | 20                   |

For cutting extras, see back of book.



## FLATS

## Soft Steel—Square Edge

| Size<br>Inches                | Wt. per Ft.<br>Lbs. | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|-------------------------------|---------------------|-----------------------|----------------------|
| $\frac{1}{4}$ x $\frac{1}{2}$ | .43                 | .90                   | 20                   |
| $\frac{3}{4}$                 | .64                 | .40                   | 20                   |
| 1                             | .85                 | .15                   | 20                   |
| $1\frac{1}{4}$                | 1.06                | .15                   | 20                   |
| $1\frac{3}{8}$                | 1.17                | .15                   | 20                   |
| $1\frac{1}{2}$                | 1.28                | .15                   | 20                   |
| $1\frac{3}{4}$                | 1.49                | .15                   | 20                   |
| 2                             | 1.70                | .15                   | 20                   |
| $2\frac{1}{4}$                | 1.91                | .15                   | 20                   |
| $2\frac{1}{2}$                | 2.13                | .15                   | 20                   |
| $2\frac{3}{4}$                | 2.34                | .15                   | 20                   |
| 3                             | 2.55                | .15                   | 20                   |
| $3\frac{1}{2}$                | 2.98                | .15                   | 20                   |
| 4                             | 3.40                | .15                   | 20                   |
| $4\frac{1}{2}$                | 3.83                | .15                   | 20                   |
| 5                             | 4.25                | .15                   | 20                   |
| 6                             | 5.10                | .15                   | 20                   |
| $\frac{5}{16}$ x 1            | 1.06                | .15                   | 20                   |
| $1\frac{1}{4}$                | 1.33                | .15                   | 20                   |
| $1\frac{1}{2}$                | 1.59                | .15                   | 20                   |
| $1\frac{3}{4}$                | 1.86                | .15                   | 20                   |
| 2                             | 2.13                | .15                   | 20                   |
| $2\frac{1}{2}$                | 2.66                | .15                   | 20                   |
| 3                             | 3.19                | .15                   | 20                   |
| 4                             | 4.25                | .15                   | 20                   |
| 5                             | 5.31                | .15                   | 20                   |
| 6                             | 6.38                | .15                   | 20                   |
| $\frac{3}{8}$ x $\frac{3}{4}$ | .96                 | .30                   | 20                   |
| 1                             | 1.28                | Base                  | 20                   |
| $1\frac{1}{4}$                | 1.59                | "                     | 20                   |
| $1\frac{1}{2}$                | 1.91                | "                     | 20                   |
| $1\frac{3}{4}$                | 2.23                | "                     | 20                   |
| 2                             | 2.55                | "                     | 20                   |
| $2\frac{1}{2}$                | 3.19                | "                     | 20                   |
| 3                             | 3.83                | "                     | 20                   |
| $3\frac{1}{2}$                | 4.46                | "                     | 20                   |
| 4                             | 5.10                | "                     | 20                   |
| $4\frac{1}{2}$                | 5.74                | "                     | 20                   |
| 5                             | 6.38                | "                     | 20                   |
| 6                             | 7.65                | "                     | 20                   |
| $\frac{1}{2}$ x $\frac{3}{4}$ | 1.28                | .30                   | 20                   |
| 1                             | 1.70                | Base                  | 20                   |
| $1\frac{1}{4}$                | 2.13                | "                     | 20                   |
| $1\frac{1}{2}$                | 2.55                | "                     | 20                   |
| $1\frac{3}{4}$                | 2.98                | "                     | 20                   |
| 2                             | 3.40                | "                     | 20                   |
| $2\frac{1}{4}$                | 3.83                | "                     | 20                   |
| $2\frac{1}{2}$                | 4.25                | "                     | 20                   |
| $2\frac{3}{4}$                | 4.68                | "                     | 20                   |
| 3                             | 5.10                | "                     | 20                   |
| $3\frac{1}{2}$                | 5.95                | "                     | 20                   |
| 4                             | 6.80                | "                     | 20                   |
| $4\frac{1}{2}$                | 7.65                | "                     | 20                   |
| 5                             | 8.50                | "                     | 20                   |
| 6                             | 10.20               | "                     | 20                   |
| $\frac{5}{8}$ x 1             | 2.13                | "                     | 20                   |
| $1\frac{1}{4}$                | 2.66                | "                     | 20                   |

For cutting extras, see back of book.

# FLATS

## Soft Steel—Square Edge

| Size<br>Inches                 | Wt. per Ft.<br>Lbs. | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|--------------------------------|---------------------|-----------------------|----------------------|
| $\frac{5}{8}$ x $1\frac{1}{2}$ | 3.19                | Base                  | 20                   |
| 2                              | 4.25                | "                     | 20                   |
| $2\frac{1}{2}$                 | 5.31                | "                     | 20                   |
| $2\frac{3}{4}$                 | 5.84                | "                     | 20                   |
| 3                              | 6.38                | "                     | 20                   |
| $3\frac{1}{2}$                 | 7.44                | "                     | 20                   |
| 4                              | 8.50                | "                     | 20                   |
| 5                              | 10.63               | "                     | 20                   |
| 6                              | 12.75               | "                     | 20                   |
| $\frac{3}{4}$ x 1              | 2.55                | "                     | 20                   |
| $1\frac{1}{4}$                 | 3.19                | "                     | 20                   |
| $1\frac{1}{2}$                 | 3.83                | "                     | 20                   |
| $1\frac{3}{4}$                 | 4.46                | "                     | 20                   |
| 2                              | 5.10                | "                     | 20                   |
| $2\frac{1}{4}$                 | 5.74                | "                     | 20                   |
| $2\frac{1}{2}$                 | 6.38                | "                     | 20                   |
| $2\frac{3}{4}$                 | 7.01                | "                     | 20                   |
| 3                              | 7.65                | "                     | 20                   |
| $3\frac{1}{2}$                 | 8.93                | "                     | 20                   |
| 4                              | 10.20               | "                     | 20                   |
| $4\frac{1}{2}$                 | 11.48               | "                     | 20                   |
| 5                              | 12.75               | "                     | 20                   |
| 6                              | 15.30               | "                     | 20                   |
| $\frac{7}{8}$ x 3              | 8.93                | "                     | 20                   |
| 1 x $1\frac{1}{4}$             | 4.25                | "                     | 20                   |
| $1\frac{1}{2}$                 | 5.10                | "                     | 20                   |
| 2                              | 6.80                | "                     | 20                   |
| $2\frac{1}{2}$                 | 8.50                | "                     | 20                   |
| 3                              | 10.20               | "                     | 20                   |
| $3\frac{1}{2}$                 | 11.90               | "                     | 20                   |
| 4                              | 13.60               | "                     | 20                   |
| $4\frac{1}{2}$                 | 15.30               | "                     | 20                   |
| 5                              | 17.00               | "                     | 20                   |
| 6                              | 20.40               | "                     | 20                   |
| $1\frac{1}{4}$ x 3             | 12.75               | .10                   | 20                   |
| 4                              | 17.00               | .20                   | 20                   |
| 5                              | 21.25               | .20                   | 20                   |
| 6                              | 25.50               | .20                   | 20                   |
| $1\frac{1}{2}$ x 3             | 15.30               | .10                   | 20                   |
| 4                              | 20.40               | .20                   | 20                   |
| 2 x 4                          | 27.20               | .20                   | 20                   |
| $4\frac{1}{2}$                 | 30.60               | .20                   | 20                   |
| 6                              | 40.80               | .20                   | 20                   |

For cutting extras, see back of book.

# STAYBOLT STEEL

| Size<br>Inches | Weight<br>Per Foot<br>Lbs. | Net Extra<br>for Size | Stock Lgths.<br>Feet |
|----------------|----------------------------|-----------------------|----------------------|
| $\frac{3}{4}$  | 1.50                       | Base                  | 20                   |
| $\frac{7}{8}$  | 2.04                       | "                     | 20                   |
| 1              | 2.67                       | "                     | 20                   |
| $1\frac{1}{8}$ | 3.38                       | "                     | 20                   |
| $1\frac{1}{4}$ | 4.17                       | "                     | 20                   |
| $1\frac{3}{8}$ | 5.05                       | "                     | 20                   |
| $1\frac{1}{2}$ | 6.01                       | "                     | 20                   |
| $1\frac{5}{8}$ | 7.05                       | .10                   | 20                   |

Test report furnished on application

## COLD FINISHED ROUNDS

Screw Stock Quality Thru 1½" Rd.

Shafting Quality Over 1½" Rd.

| Size<br>Inches | Wt. per Ft.<br>Lbs. | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|----------------|---------------------|-----------------------|----------------------|
| 1/8            | .042                | \$1.30                | 12                   |
| 3/16           | .094                | 1.10                  | 12                   |
| 1/4            | .167                | 1.00                  | 12                   |
| 5/16           | .261                | .90                   | 12                   |
| 3/8            | .376                | .85                   | 10-20                |
| 7/16           | .511                | .85                   | 10-20                |
| 1/2            | .668                | .80                   | 10-20                |
| 9/16           | .845                | .80                   | 10-20                |
| 5/8            | 1.04                | .70                   | 10-20                |
| 11/16          | 1.26                | .60                   | 10-20                |
| 3/4            | 1.50                | .60                   | 10-20                |
| 13/16          | 1.76                | .55                   | 10-20                |
| 7/8            | 2.04                | .55                   | 10-20                |
| 15/16          | 2.35                | .55                   | 10-20                |
| 1              | 2.67                | .55                   | 10-20                |
| 11/16          | 3.01                | .55                   | 10-20                |
| 1 1/8          | 3.38                | .55                   | 10-20                |
| 1 1/4          | 3.77                | .55                   | 10-20                |
| 1 1/2          | 4.17                | .55                   | 10-20                |
| 1 5/8          | 4.60                | .55                   | 10-20                |
| 1 3/4          | 5.05                | .55                   | 10-20                |
| 1 7/8          | 5.52                | .55                   | 10-20                |
| 1 9/16         | 6.00                | .60                   | 10-20                |
| 1 5/8          | 6.52                | .60                   | 20                   |
| 1 11/16        | 7.05                | .60                   | 20                   |
| 1 3/4          | 7.60                | .60                   | 20                   |
| 1 13/16        | 8.18                | .60                   | 20                   |
| 1 7/8          | 8.77                | .60                   | 20                   |
| 1 15/16        | 9.39                | .60                   | 20                   |
| 2              | 10.03               | .60                   | 20                   |
| 2 1/16         | 10.68               | .60                   | 20                   |
| 2 1/8          | 11.36               | .65                   | 20                   |
| 2 1/4          | 12.06               | .65                   | 20                   |
| 2 3/8          | 12.78               | .65                   | 20                   |
| 2 1/2          | 13.52               | .65                   | 20                   |
| 2 5/8          | 14.28               | .65                   | 20                   |
| 2 3/4          | 15.06               | .65                   | 20                   |
| 2 7/8          | 15.87               | .65                   | 20                   |
| 2 9/16         | 16.69               | .65                   | 20                   |
| 2 5/8          | 18.40               | .80                   | 20                   |
| 2 3/4          | 20.20               | .80                   | 20                   |
| 2 15/16        | 23.05               | .80                   | 20                   |
| 3              | 24.03               | .80                   | 20                   |
| 3 1/4          | 28.21               | .90                   | 20                   |
| 3 1/2          | 32.71               | 1.00                  | 20                   |
| 3 3/4          | 37.56               | 1.00                  | 20                   |
| 4              | 42.73               | 1.15                  | 20                   |

Chemical, cutting and quantity extras in back of book.

Turned and Polished Shafting, Ground and Polished Shafting and Turned and Ground Shafting not stocked but can be furnished promptly.



## COLD FINISHED HEXAGONS

Screw Stock Quality

| Size<br>Inches | Wt. per Ft.<br>Lbs | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|----------------|--------------------|-----------------------|----------------------|
| 1/2            | .74                | .90                   | 12                   |
| 5/8            | 1.15               | .70                   | 12                   |
| 3/4            | 1.66               | .60                   | 12                   |
| 7/8            | 2.25               | .55                   | 12                   |
| 1              | 2.94               | .50                   | 12                   |
| 1 1/4          | 4.60               | .45                   | 12                   |
| 1 1/2          | 6.62               | .60                   | 12                   |
| 1 3/4          | 9.00               | .60                   | 12                   |
| 2              | 11.77              | .75                   | 12                   |

Chemical, cutting and quantity extras in back of book.

## COLD FINISHED SQUARES

Key Stock Quality

| Size<br>Inches | Wt. per Ft.<br>Lbs. | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|----------------|---------------------|-----------------------|----------------------|
| 1/8            | .053                | \$5.00                | 12                   |
| 3/16           | .119                | 4.00                  | 12                   |
| 1/4            | .213                | 2.50                  | 12                   |
| 5/16           | .332                | 2.50                  | 12                   |
| 3/8            | .479                | 1.75                  | 12                   |
| 7/16           | .652                | 1.75                  | 12                   |
| 1/2            | .850                | 1.30                  | 12                   |
| 5/8            | 1.34                | 1.30                  | 12                   |
| 3/4            | 1.92                | 1.05                  | 12                   |
| 7/8            | 2.60                | 1.05                  | 12                   |
| 1              | 3.40                | 1.05                  | 12                   |
| 1 1/8          | 4.31                | 1.05                  | 12                   |
| 1 3/16         | 4.80                | 1.05                  | 12                   |
| 1 1/4          | 5.32                | 1.05                  | 12                   |
| 1 3/8          | 6.43                | 1.25                  | 12                   |
| 1 1/2          | 7.65                | 1.25                  | 12                   |
| 1 5/8          | 8.98                | 1.25                  | 12                   |
| 1 3/4          | 10.42               | 1.25                  | 12                   |
| 2              | 13.61               | 1.25                  | 12                   |

Chemical, cutting and quantity extras in back of book.

Larger sizes in both Hexagons and Squares not stocked but can be furnished promptly.

## COLD FINISHED FLATS

| Size Inches                    | Wt. per Ft.—Lbs. | Net Extra For Size | Stock Lgths. Ft. |
|--------------------------------|------------------|--------------------|------------------|
| $\frac{1}{8}$ x $\frac{1}{2}$  | .212             | \$6.50             | 12               |
| $\frac{3}{4}$                  | .319             | 4.50               | 12               |
| 1                              | .425             | 4.50               | 12               |
| $1\frac{1}{4}$                 | .531             | 3.50               | 12               |
| $1\frac{1}{2}$                 | .638             | 3.50               | 12               |
| $2\frac{3}{4}$                 | 1.169            | 3.00               | 12               |
| $\frac{3}{16}$ x $\frac{1}{2}$ | .319             | 5.75               | 12               |
| $\frac{5}{8}$                  | .398             | 5.25               | 12               |
| $\frac{3}{4}$                  | .478             | 3.75               | 12               |
| 1                              | .638             | 3.75               | 12               |
| $1\frac{1}{4}$                 | .797             | 2.75               | 12               |
| $\frac{1}{4}$ x $\frac{1}{2}$  | .425             | 5.75               | 12               |
| $\frac{3}{4}$                  | .638             | 3.75               | 12               |
| $\frac{7}{8}$                  | .744             | 3.75               | 12               |
| 1                              | .85              | 3.75               | 12               |
| $1\frac{1}{4}$                 | 1.06             | 2.75               | 12               |
| $1\frac{1}{2}$                 | 1.28             | 2.75               | 12               |
| 2                              | 1.70             | 1.75               | 12               |
| $2\frac{1}{2}$                 | 2.13             | 1.75               | 12               |
| 3                              | 2.55             | 1.75               | 12               |
| 4                              | 3.40             | 3.00               | 12               |
| $\frac{5}{16}$ x 1             | 1.06             | 3.75               | 12               |
| $\frac{3}{8}$ x $\frac{1}{2}$  | .638             | 4.75               | 12               |
| $\frac{5}{8}$                  | .797             | 4.25               | 12               |
| $\frac{3}{4}$                  | .956             | 2.75               | 12               |
| $\frac{7}{8}$                  | 1.116            | 2.75               | 12               |
| 1                              | 1.28             | 2.75               | 12               |
| $1\frac{1}{4}$                 | 1.59             | 2.75               | 12               |
| $1\frac{1}{2}$                 | 1.91             | 2.75               | 12               |
| 2                              | 2.55             | 1.75               | 12               |
| $2\frac{1}{2}$                 | 3.19             | 1.75               | 12               |
| 3                              | 3.83             | 1.75               | 12               |
| $\frac{1}{2}$ x $\frac{5}{8}$  | 1.06             | 3.25               | 12               |
| $\frac{3}{4}$                  | 1.28             | 1.75               | 12               |
| $\frac{7}{8}$                  | 1.49             | 1.75               | 12               |
| 1                              | 1.70             | 1.75               | 12               |
| $1\frac{1}{4}$                 | 2.13             | 1.75               | 12               |
| $1\frac{1}{2}$                 | 2.55             | 1.75               | 12               |
| 2                              | 3.40             | 1.50               | 12               |
| $2\frac{1}{2}$                 | 4.25             | 1.50               | 12               |
| 3                              | 5.10             | 1.50               | 12               |
| $\frac{5}{8}$ x $\frac{3}{4}$  | 1.59             | 1.50               | 12               |
| 1                              | 2.12             | 1.50               | 12               |
| $1\frac{1}{2}$                 | 3.19             | 1.50               | 12               |
| 2                              | 4.25             | 1.50               | 12               |
| $2\frac{1}{2}$                 | 5.31             | 1.50               | 12               |
| 3                              | 6.38             | 1.50               | 12               |
| $\frac{3}{4}$ x 1              | 2.55             | 1.50               | 12               |
| $1\frac{1}{4}$                 | 3.19             | 1.50               | 12               |
| $1\frac{1}{2}$                 | 3.83             | 1.50               | 12               |
| $1\frac{3}{4}$                 | 4.46             | 1.50               | 12               |
| 2                              | 5.10             | 1.50               | 12               |
| $2\frac{1}{2}$                 | 6.38             | 1.50               | 12               |
| 3                              | 7.65             | 1.50               | 12               |
| 1 x $1\frac{1}{4}$             | 4.26             | 1.50               | 12               |
| $1\frac{1}{2}$                 | 5.10             | 1.50               | 12               |
| 2                              | 6.80             | 1.50               | 12               |
| $2\frac{1}{2}$                 | 8.50             | 1.50               | 12               |
| 3                              | 10.20            | 1.50               | 12               |
| $3\frac{1}{2}$                 | 11.90            | 2.50               | 12               |
| 4                              | 13.60            | 2.50               | 12               |
| $1\frac{1}{2}$ x 3             | 15.30            | 1.50               | 12               |
| 2 x 3                          | 20.40            | 1.50               | 12               |

Chemical, cutting and quantity extras in back of book.

## TOOL STEEL

"ECCO" Tool Steels are made for us by a well known mill with a half century of leadership in tool and special alloy steels.

With modern electric furnaces for quality production, internationally recognized metallurgical experts for the analysis and supervision of production, "ECCO" Tool Steels offer the reliability and consistency which insures low production costs and long runs with sustained quality of output.

In buying "ECCO" brand tool steels, you are assured of a tool steel of the highest quality and grade made and have access at all times to the Research Department of the mill which supplies this material.

**NOTE**—It is most important when ordering tool steel to state the purpose for which the steel will be used.

"ECCO" Tool Steels are furnished under the following Brands:

### "ECCO HIGH SPEED" TOOL BITS

The best grade of high speed tool bit for general work, with consistent quality and capabilities equal to the demands of present day machine shop use.

Carried in stock in 5 lb. boxes in  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ "  $\frac{3}{4}$ " and 1".

### "ECCO COBALT" TOOL BITS

A superior high speed tool bit giving high cutting speed and is in demand generally where exceptionally severe duty and high cutting efficiency are required.

Carried in stock in 5 lb. boxes in  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ " and 1".

### "ECCO EXCEL" TOOL BITS

A high speed tool bit which provides maximum quality and fineness of cutting edge. We recommend it for the severest duty where "production" is required.

Carried in stock in 5 lb. boxes in  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ " and 1".

All of the above tool bits are tempered and carried in standard lengths ready for use.

### ECCO HIGH SPEED STEEL

#### Harden in Oil or Dry Air

The best grade of high speed steel for general work with consistent quality and capabilities equal to the demands of present day machine shop practice. Recommended for turning, boring, planing and shaping tools, twist drills and all forms of milling cutters, taps, reamers and special dies.

A complete stock of Ecco High Speed is carried at all times.

#### Heat Treatment

**Forge**—At a temperature of 1750–2050 degrees Fahrenheit.

**Anneal**—Pack in charcoal, lime or fine dry ashes. Heat slowly to 1600–1650 degrees Fahrenheit and hold at heat for from two to five hours.

**Harden**—Preheat slowly to 1550–1650 degrees Fahrenheit. After thoroughly heated thru at preheat, bring up quickly to 2325–2375 degrees Fahrenheit and quench in oil or dry air. Do not soak. Draw to 1100–1150 degrees Fahrenheit immediately after quenching.



## TOOL STEEL

### ECCO COBALT STEEL Harden in Oil or Dry Air

A superior high speed steel for red hardness, giving high cutting speed. It has demonstrated its worth for machining heat treated materials, drop forgings, steel and iron castings, and in general where exceptionally severe duty and high cutting efficiency are required.

A complete stock of Ecco Cobalt is carried at all times.

#### Heat Treatment

The heat treatment on Ecco Cobalt is practically the same as on our Ecco High Speed except a slightly higher hardening temperature is desirable, namely 2375-2450 degrees Fahrenheit. Quench in oil or dry air. Draw back to 1100-1150 degrees Fahrenheit immediately after quenching.

### ECCO EXCEL STEEL Harden in Oil or Dry Air

Molybdenum has been added to the Ecco Cobalt grade and the resulting high speed steel provides maximum quality and fineness of cutting edge. This steel is a real achievement in the art of producing electric furnace steels—clean steel, with reliability in every pound of the analysis.

A complete stock of Ecco Excel is carried at all times.

#### Heat Treatment

The heat treatment is the same as listed on our Ecco Cobalt grade.

### ECCO HOT DIE STEEL Harden in Oil or Dry Air

A steel to withstand the heating effects of hot work as in heading dies, for example. It is a low tungsten high speed steel, air and oil hardening, that is almost file hard, will not batter up, and is extremely tough. It is intended for rivet making and bolt heading dies, hot punches, tong bits, extrusion dies, and hot work generally.

A complete stock of Ecco Hot Die is carried at all times.

#### Heat Treatment

Preheat carefully to 1500-1650 degrees Fahrenheit. Then raise quickly to 2000-2150 degrees Fahrenheit. Quench in oil or cool in an air blast depending upon the size and type of the die being created. Draw at 500-1000 degrees Fahrenheit to suit conditions.

### ECCO H-C-C DIE STEEL Harden in Oil

A high carbon, chromium, tool steel—oil hardening to a great depth without warping or twisting—which gives superior results for blanking silicon transformer sheets and armature discs. We recommend Ecco H-C-C Die for punches and dies, for thin sheets and heavy materials, for drawing, threading, forming, thread rolling and mint dies, taps, reamers, and plug and ring gauges.

A complete stock of Ecco H-C-C Die is carried at all times.

#### Heat Treatment

**Forge**—Heat slowly and uniformly to 2000 degrees Fahrenheit. Do not work under 1600 degrees Fahrenheit. Cool very slowly.

**Anneal**—Heat slowly to 1600-1650 degrees Fahrenheit. Pack annealing is recommended. Hold from 1-3 hours depending on size. Cool slowly. Quench in oil.

Draw from 350-900 degrees Fahrenheit.

## TOOL STEEL

### ECCO ERIE STEEL

#### Harden in Oil

An intermediary tungsten alloy tool steel especially designed for heavy work. It is an oil-hardening, non-shrinking steel, free from tendency to warp, twist, crack or check in hardening. It will carry a very hard, keen durable cutting edge; for press tools, complicated shapes, taps, reamers and punches.

A complete stock of Ecco Erie is carried at all times.

#### Heat Treatment

**Forge**—1850-1900 degrees Fahrenheit.

**Anneal**—Pack in tube or box with powdered ashes, charcoal or mica and heat to 1500-1525 degrees Fahrenheit. Hold at temperature until pieces are heated thru and allow to cool as slowly as possible.

**Harden**—Heat slowly and uniformly from 1500-1700 degrees Fahrenheit and quench in oil. Do not soak. This steel is not commonly drawn higher than 390-400 degrees Fahrenheit.

### ECCO CHROME DIE STEEL

#### Harden in Oil or Dry Air

An excellent steel for cold die work, suitable for certain types of hot die work, or where first cost of tools is a consideration. It gives fine service for grippers, headers, hot shear blades and similar tools. Rivet sets and bull dies of Ecco Chrome Die resist breaking and battering.

A complete stock of Ecco Chrome Die is carried at all times

#### Heat Treatment

**Forge**—Heat slowly to 1800-2000 degrees Fahrenheit. Do not work below 1500 degrees Fahrenheit.

**Anneal**—Heat slowly to 1500-1600 degrees Fahrenheit. Cool slowly in furnace.

**Harden**—Preheat slowly to 1400-1500 degrees Fahrenheit. Increase rapidly to 1750-1850 degrees Fahrenheit depending on size of dies. Cool in dry air blast. Where more hardness is desired, bring to 1600-1650 degrees Fahrenheit. Quench in Oil.

**Draw**—900-1000 degrees Fahrenheit.

### ECCO CHROME VANADIUM STEEL

#### Harden in Oil

A chrome-vanadium alloy tool steel possessing greater life, cutting edges and resistance to vibratory stresses. Ecco Chrome-Vanadium is the result of great success in alloying these elements, it is a superior steel for expensive taps and screw dies, punches, cutters. and all purposes where a lasting and very hard cutting edge is desired.

A complete stock of Ecco Chrome-Vanadium is carried at all times.

#### Heat Treatment

**Anneal**—Heat to 1450 degrees Fahrenheit and cool slowly.

**Harden**—Heat very slowly to 1500-1700 degrees Fahrenheit depending on the carbon content. Quench in oil. Draw to requirements.

## TOOL STEEL

### ECCO VANADIUM STEEL

#### Harden in Water

An alloy treated steel, close grained and dense, stronger and tougher than carbon tool steels. Designed for tools subject to shock, such as hand and pneumatic chisels, boilermakers' caulking tools and rivet sets; also for cold upsetting dies, cold punches, shear blades and stamping dies.

A complete stock of Ecco Vanadium is carried at all times.

#### Heat Treatment

**Forge**—Same as carbon tool steel.

**Anneal**—1375-1400 degrees Fahrenheit.

**Harden**—1425-1475 degrees Fahrenheit. Harden in water only.

**Draw**—To suit requirements.

### ECCO EXTRA STEEL

#### Harden in Water

A carbon tool steel of similar analysis to the first grade, Ecco Special, but a little less high in refinement. It is recommended for lathe and planer tools, dies, finishing tools, shear blades, and for purposes where quality is important. It will harden to good depth and is particularly free from tendency to warp or twist.

A complete stock of Ecco Extra is carried at all times.

#### Heat Treatment

**Forge**—At a temperature of 1700-1900 degrees Fahrenheit.

**Anneal**—At a temperature of 1375-1400 degrees Fahrenheit.

**Harden**—At a temperature of 1425-1475 degrees Fahrenheit.

### ECCO NON-SHRINKING STEEL

#### Harden in Oil

An oil hardening, non-shrinking tool steel with the widest range of usefulness. Its analysis permits of a lower hardening temperature than other types of oil hardening steel. For threading dies, chasers, gauges, plugs, and all master tools especially recommended for stamping, punching and trimming dies.

#### Heat Treatment

**Forge**—Same as carbon tool steel.

**Anneal**—1375-1400 degrees Fahrenheit.

**Harden**—1380-1440 degrees Fahrenheit.

**Draw**—450-500 degrees Fahrenheit.

#### Sizes Carried in Stock

#### ROUNDS ANNEALED

| Size<br>Inches | Stock<br>Lengths<br>Feet | Size<br>Inches | Stock<br>Lengths<br>Feet |
|----------------|--------------------------|----------------|--------------------------|
| $\frac{3}{4}$  | 10-12                    | $2\frac{1}{2}$ | 10-12                    |
| 1              | 10-12                    | $2\frac{3}{4}$ | 10-12                    |
| $1\frac{1}{4}$ | 10-12                    | 3              | 10-12                    |
| $1\frac{1}{2}$ | 10-12                    | $3\frac{1}{2}$ | 10-12                    |
| $1\frac{3}{4}$ | 10-12                    | 4              | 10-12                    |
| 2              | 10-12                    | $4\frac{1}{2}$ | 10-12                    |
| $2\frac{1}{4}$ | 10-12                    | 5              | 10-12                    |

Subject to standard extras for size, annealing, cutting, etc.



## TOOL STEEL

### ECCO NON-SHRINKING STEEL

Sizes Carried in Stock

#### SQUARES ANNEALED

| Size<br>Inches | Stock<br>Lengths<br>Feet | Size<br>Inches | Stock<br>Lengths<br>Feet |
|----------------|--------------------------|----------------|--------------------------|
| 1              | 10-12                    | 2              | 10-12                    |
| 1 1/4          | 10-12                    | 2 1/2          | 10-12                    |
| 1 1/2          | 10-12                    |                |                          |

#### FLATS ANNEALED

|         |       |           |       |
|---------|-------|-----------|-------|
| 1/2 x 1 | 10-12 | 1 1/4 x 3 | 10-12 |
| 1 1/4   | 10-12 | 4         | 10-12 |
| 1 1/2   | 10-12 | 5         | 10-12 |
| 1 3/4   | 10-12 | 6         | 10-12 |
| 3/4 x 2 | 10-12 | 1 1/2 x 2 | 10-12 |
| 1 x 3   | 10-12 | 5         | 10-12 |
| 4       | 10-12 | 2 x 2 1/2 | 10-12 |
| 5       | 10-12 | 3         | 10-12 |
| 6       | 10-12 |           |       |

Subject to standard extras for size, annealing, cutting, etc.

### ECCO ALLOY STEEL

Harden in Oil or Dry Air

This alloy steel possesses unique qualities—a cutting edge can be made extremely hard, yet it can be bent in this condition. It is unequalled for chisels, beading tools, rivet sets, and pneumatic tools. Free from any tendency to warp, twist or move in hardening, it will outlast a score of chisels made of carbon steel.

A complete stock of Ecco Alloy is carried at all times.

#### Heat Treatment

**Forge**—1550–1650 degrees Fahrenheit and forge at this heat quickly. Allow to cool in the air after forging.

**Harden**—Heat 1" back from the cutting edge 1550–1600 degrees Fahrenheit and quench in good oil. Draw to a light straw to toughen the structure. This steel must not come in contact with water.

Sizes Carried in Stock

#### OCTAGONS ANNEALED

| Size<br>Inches | Stock<br>Lengths<br>Feet | Size<br>Inches | Stock<br>Lengths<br>Feet |
|----------------|--------------------------|----------------|--------------------------|
| 1/4            | 10-12                    | 7/8            | 10-12                    |
| 3/8            | 10-12                    | 1              | 10-12                    |
| 1/2            | 10-12                    | 1 1/8          | 10-12                    |
| 5/8            | 10-12                    | 1 1/4          | 10-12                    |
| 3/4            | 10-12                    |                |                          |

Subject to standard extras for size, annealing, cutting, etc.

## TOOL STEEL

### ECCO SPECIAL STEEL

#### Harden in Water

The finest quality straight carbon tool steel that can be made. It will give great satisfaction, meeting the most severe requirements for cutting and impact tools such as dies, punches, taps, screw dies and chisels. It is particularly free from tendency to warp or twist in hardening. Recommended where quality is of prime importance.

#### Heat Treatment

**Forge**—At a temperature of 1700–1900 degrees Fahrenheit.

**Anneal**—At a temperature of 1375–1400 degrees Fahrenheit.

**Harden**—At a temperature of 1425–1475 degrees Fahrenheit.

#### Sizes Carried in Stock

##### ROUNDS ANNEALED

| Size<br>Inches | Stock<br>Lengths<br>Feet | Size<br>Inches | Stock<br>Lengths<br>Feet |
|----------------|--------------------------|----------------|--------------------------|
| $\frac{1}{4}$  | 10-12                    | $2\frac{1}{8}$ | 10-12                    |
| $\frac{5}{16}$ | 10-12                    | $2\frac{1}{4}$ | 10-12                    |
| $\frac{1}{2}$  | 10-12                    | $2\frac{3}{8}$ | 10-12                    |
| $\frac{5}{8}$  | 10-12                    | $2\frac{1}{2}$ | 10-12                    |
| $\frac{3}{4}$  | 10-12                    | $2\frac{5}{8}$ | 10-12                    |
| $\frac{7}{8}$  | 10-12                    | $2\frac{3}{4}$ | 10-12                    |
| 1              | 10-12                    | $2\frac{7}{8}$ | 10-12                    |
| $1\frac{1}{4}$ | 10-12                    | 3              | 10-12                    |
| $1\frac{1}{2}$ | 10-12                    | $3\frac{1}{4}$ | 10-12                    |
| $1\frac{3}{4}$ | 10-12                    | $3\frac{1}{2}$ | 10-12                    |
| 2              | 10-12                    |                |                          |

##### OCTAGONS ANNEALED

|               |       |                |       |
|---------------|-------|----------------|-------|
| $\frac{1}{4}$ | 10-12 | $\frac{7}{8}$  | 10-12 |
| $\frac{3}{8}$ | 10-12 | 1              | 10-12 |
| $\frac{1}{2}$ | 10-12 | $1\frac{1}{8}$ | 10-12 |
| $\frac{5}{8}$ | 10-12 | $1\frac{1}{4}$ | 10-12 |
| $\frac{3}{4}$ | 10-12 |                |       |

##### SQUARES ANNEALED

|               |       |                |       |
|---------------|-------|----------------|-------|
| $\frac{1}{2}$ | 10-12 | $1\frac{1}{4}$ | 10-12 |
| $\frac{5}{8}$ | 10-12 | $1\frac{1}{2}$ | 10-12 |
| $\frac{3}{4}$ | 10-12 | $1\frac{3}{4}$ | 10-12 |
| $\frac{7}{8}$ | 10-12 | 2              | 10-12 |
| 1             | 10-12 |                |       |

Subject to standard extras for size, annealing, cutting, etc.

# TOOL STEEL

ECCO SPECIAL STEEL  
 Sizes Carried in Stock  
 FLATS ANNEALED

| Size<br>Inches | Stock<br>Lengths<br>Feet | Size<br>Inches | Stock<br>Lengths<br>Feet |
|----------------|--------------------------|----------------|--------------------------|
| 1/2 x 3/4      | 10-12                    | 1 1/4 x 2 3/4  | 10-12                    |
| 1              | 10-12                    | 3              | 10-12                    |
| 1 1/2          | 10-12                    | 3 1/4          | 10-12                    |
| 2              | 10-12                    | 3 1/2          | 10-12                    |
| 2 1/2          | 10-12                    | 3 3/4          | 10-12                    |
| 5/8 x 1 5/8    | 10-12                    | 4              | 10-12                    |
| 1 3/4          | 10-12                    | 4 1/4          | 10-12                    |
| 3/4 x 1        | 10-12                    | 4 1/2          | 10-12                    |
| 1 1/2          | 10-12                    | 4 3/4          | 10-12                    |
| 2              | 10-12                    | 5              | 10-12                    |
| 2 1/2          | 10-12                    | 6              | 10-12                    |
| 2 3/4          | 10-12                    | 7              | 10-12                    |
| 3              | 10-12                    | 1 1/2 x 3      | 10-12                    |
| 1 x 1 5/8      | 10-12                    | 3 1/2          | 10-12                    |
| 2              | 10-12                    | 4              | 10-12                    |
| 2 1/2          | 10-12                    | 4 1/2          | 10-12                    |
| 2 3/4          | 10-12                    | 5              | 10-12                    |
| 3              | 10-12                    | 6              | 10-12                    |
| 3 1/4          | 10-12                    | 7              | 10-12                    |
| 3 1/2          | 10-12                    | 1 7/8 x 2      | 10-12                    |
| 3 3/4          | 10-12                    | 2 x 3          | 10-12                    |
| 4              | 10-12                    | 4              | 10-12                    |
| 1 1/4 x 2      | 10-12                    | 6              | 10-12                    |
| 2 1/2          | 10-12                    | 8              | 10-12                    |

Subject to standard extras for size, annealing, cutting, etc.

## ECCO TOOL STEEL

### Harden in Water

An ordinary carbon tool steel suitable for chisels, blacksmiths' tools, mining bits, boilermakers' tools, etc.

### Heat Treatment

Forge—At a temperature of 1650-1800 degrees Fahrenheit.

Anneal—At a temperature of 1375-1400 degrees Fahrenheit.

Harden—At a temperature of 1425-1475 degrees Fahrenheit.

### Sizes Carried in Stock

## SQUARES ANNEALED

| Size<br>Inches | Stock<br>Lengths<br>Feet | Size<br>Inches | Stock<br>Lengths<br>Feet |
|----------------|--------------------------|----------------|--------------------------|
| 7/8            | 10-12                    | 1 3/8          | 10-12                    |
| 1              | 10-12                    | 1 1/2          | 10-12                    |
| 1 1/8          | 10-12                    | 1 3/4          | 10-12                    |
| 1 1/4          | 10-12                    | 2              | 10-12                    |

Subject to standard extras for size, annealing, cutting, etc.

## ECCO DRILL ROD

Round carbon and high speed drill rods suitable for taps, reamers, punches, twist drills, etc., carried in stock in regular lengths and sizes.



**BRASS RODS**  
**FREE CUTTING ROUNDS**  
**In 10-12 Ft. Lgths.**

| Size<br>Inches  | Wt. Per Ft.<br>Lbs. | Size<br>Inches | Wt. Per Ft.<br>Lbs. |
|-----------------|---------------------|----------------|---------------------|
| $\frac{1}{4}$   | .1811               | 1              | 2.897               |
| $\frac{5}{16}$  | .2829               | $1\frac{1}{8}$ | 3.667               |
| $\frac{3}{8}$   | .4074               | $1\frac{1}{4}$ | 4.527               |
| $\frac{15}{32}$ | .6364               | $1\frac{3}{8}$ | 5.478               |
| $\frac{1}{2}$   | .7243               | $1\frac{1}{2}$ | 6.519               |
| $\frac{5}{8}$   | 1.132               | $1\frac{5}{8}$ | 7.651               |
| $\frac{3}{4}$   | 1.630               | $1\frac{3}{4}$ | 8.873               |
| $\frac{7}{8}$   | 2.218               | 2              | 11.59               |

**FREE CUTTING SQUARES**  
**In 10-12 Ft. Lgths.**

| Size<br>Inches | Wt. Per Ft.<br>Lbs. | Size<br>Inches | Wt. Per Ft.<br>Lbs. |
|----------------|---------------------|----------------|---------------------|
| $\frac{1}{4}$  | .2306               | $\frac{7}{8}$  | 2.824               |
| $\frac{3}{8}$  | .5188               | 1              | 3.689               |
| $\frac{1}{2}$  | .9222               | $1\frac{1}{4}$ | 5.764               |
| $\frac{5}{8}$  | 1.441               | $1\frac{1}{2}$ | 8.300               |
| $\frac{3}{4}$  | 2.075               | 2              | 14.76               |

**FREE CUTTING HEXAGONS**  
**In 10-12 Ft. Lgths.**

| Size<br>Inches | Wt. Per Ft.<br>Lbs. | Size<br>Inches | Wt. Per Ft.<br>Lbs. |
|----------------|---------------------|----------------|---------------------|
| $\frac{1}{4}$  | .1997               | $1\frac{1}{4}$ | 4.992               |
| $\frac{3}{8}$  | .4493               | $1\frac{3}{8}$ | 6.040               |
| $\frac{1}{2}$  | .7987               | $1\frac{1}{2}$ | 7.188               |
| $\frac{5}{8}$  | 1.248               | $1\frac{5}{8}$ | 8.436               |
| $\frac{3}{4}$  | 1.797               | $1\frac{3}{4}$ | 9.784               |
| $\frac{7}{8}$  | 2.446               | $1\frac{7}{8}$ | 11.23               |
| 1              | 3.195               | 2              | 12.78               |
| $1\frac{1}{8}$ | 4.043               |                |                     |

**BRASS PIPE**  
**Standard Pipe Sizes—In 12 Ft. Lgths.**

| Size<br>Inches | Wt. Per Ft.<br>Lbs. | Size<br>Inches | Wt. Per Ft.<br>Lbs. |
|----------------|---------------------|----------------|---------------------|
| $\frac{1}{4}$  | .437                | 1              | 1.74                |
| $\frac{3}{8}$  | .612                | $1\frac{1}{4}$ | 2.56                |
| $\frac{1}{2}$  | .911                | $1\frac{1}{2}$ | 3.04                |
| $\frac{3}{4}$  | 1.24                | 2              | 4.02                |

**TYPE K COPPER WATER TUBE**  
**In Coils and Straight Lgths.**

| Size<br>Inches | Wt. Per Ft.<br>Lbs. | Size<br>Inches | Wt. Per Ft.<br>Lbs. |
|----------------|---------------------|----------------|---------------------|
| $\frac{1}{4}$  | .133                | 1              | .839                |
| $\frac{3}{8}$  | .269                | $1\frac{1}{4}$ | 1.040               |
| $\frac{1}{2}$  | .344                | $1\frac{1}{2}$ | 1.360               |
| $\frac{3}{4}$  | .641                |                |                     |

FULL WEIGHT  
BLACK STEEL PIPE

Threaded and Coupled

| Size<br>Inches | Wt.<br>Per<br>Ft. | Avge. per Bdle. |     |     | Size<br>Inches | Wt.<br>Per<br>Ft. | Avge. per Bdle. |     |     |
|----------------|-------------------|-----------------|-----|-----|----------------|-------------------|-----------------|-----|-----|
|                |                   | Pcs.            | Ft. | Wt. |                |                   | Pcs.            | Ft. | Wt. |
| 1/8            | .245              | ..              | 500 | 123 | 2              | 3.678             | NOT<br>BUNDLED  |     |     |
| 1/4            | .425              | 24              | 420 | 179 | 2 1/2          | 5.819             |                 |     |     |
| 3/8            | .568              | 18              | 340 | 193 | 3              | 7.616             |                 |     |     |
| 1/2            | .852              | 12              | 240 | 204 | 3 1/2          | 9.202             |                 |     |     |
| 3/4            | 1.134             | 7               | 140 | 159 | 4              | 10.889            |                 |     |     |
| 1              | 1.684             | 5               | 100 | 168 | 5              | 14.810            |                 |     |     |
| 1 1/4          | 2.281             | 3               | 60  | 137 | 6              | 19.185            |                 |     |     |
| 1 1/2          | 2.731             | 3               | 60  | 164 | 8              | 25.000            |                 |     |     |

FULL WEIGHT  
EXTRA HEAVY BLACK STEEL PIPE

Plain Ends

| Size<br>Inches | Wt.<br>Per<br>Ft. | Avge. per Bdle. |     |     | Size<br>Inches | Wt.<br>Per<br>Ft. | Avge. per Bdle. |     |     |
|----------------|-------------------|-----------------|-----|-----|----------------|-------------------|-----------------|-----|-----|
|                |                   | Pcs.            | Ft. | Wt. |                |                   | Pcs.            | Ft. | Wt. |
| 1/8            | .314              | ..              | 500 | 157 | 2              | 5.022             | NOT<br>BUNDLED  |     |     |
| 1/4            | .535              | 24              | 400 | 214 | 2 1/2          | 7.661             |                 |     |     |
| 3/8            | .738              | 18              | 330 | 244 | 3              | 10.252            |                 |     |     |
| 1/2            | 1.087             | 12              | 230 | 250 | 3 1/2          | 12.505            |                 |     |     |
| 3/4            | 1.473             | 7               | 140 | 206 | 4              | 14.983            |                 |     |     |
| 1              | 2.171             | 5               | 100 | 217 | 5              | 20.778            |                 |     |     |
| 1 1/4          | 2.996             | 3               | 60  | 180 | 6              | 28.573            |                 |     |     |
| 1 1/2          | 3.631             | 3               | 60  | 218 |                |                   |                 |     |     |

FULL WEIGHT  
GALVANIZED STEEL PIPE

Threaded and Coupled

| Size<br>Inches | Wt.<br>Per<br>Ft. | Avge. per Bdle. |     |     | Size<br>Inches | Wt.<br>Per<br>Ft. | Avge. per Bdle. |     |     |
|----------------|-------------------|-----------------|-----|-----|----------------|-------------------|-----------------|-----|-----|
|                |                   | Pcs.            | Ft. | Wt. |                |                   | Pcs.            | Ft. | Wt. |
| 1/8            | .245              | ..              | 500 | 123 | 2              | 3.678             | NOT<br>BUNDLED  |     |     |
| 1/4            | .425              | 24              | 420 | 179 | 2 1/2          | 5.819             |                 |     |     |
| 3/8            | .568              | 18              | 340 | 193 | 3              | 7.616             |                 |     |     |
| 1/2            | .852              | 12              | 240 | 204 | 3 1/2          | 9.202             |                 |     |     |
| 3/4            | 1.134             | 7               | 140 | 159 | 4              | 10.889            |                 |     |     |
| 1              | 1.684             | 5               | 100 | 168 | 5              | 14.810            |                 |     |     |
| 1 1/4          | 2.281             | 3               | 60  | 137 | 6              | 19.185            |                 |     |     |
| 1 1/2          | 2.731             | 3               | 60  | 164 |                |                   |                 |     |     |

STEEL OIL AND WATER WELL CASING

| Size Inches | Wt. Per Ft. | Standard Packers for standard casing also carried in stock. |
|-------------|-------------|---|
| 3 1/4       | 4.60        |   |
| 4 1/4       | 6.75        |   |
| 5 5/8       | 10.50       |   |

## WELDING WIRE

A gas or electric welding wire for every purpose.

If you do not find the wire for your requirements listed, call us.

### CLASS "A" BARE ELECTRODES

Graded by the National Electrical Manufacturers Association.

**PAGE "B" (PROCESSED) ELECTRODES**—A rust lime finish rod especially processed for vertical and overhead welding and recommended for production welding on structural shapes, plates, mild steel parts, etc.

**PAGE "E" ELECTRODES**—This is also a rust lime rod but is not processed and is recommended as a general purpose electrode suitable for welding of mild steel parts.

**PAGE HIGH CARBON ELECTRODES**—A bare rod recommended for all electric welding operations where high resistance to abrasive wear is required. Deposit cannot be machined. Suitable for building up rail ends, frogs, switches, crossings, tire flanges, etc. Should be used with reversed polarity.

These rods are stocked in  $\frac{1}{16}$ ",  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ " and  $\frac{3}{8}$ " sizes, in standard 14" lengths, packed in 50 pound cartons properly tagged.

### CLASS "C" DIPPED ELECTRODES

Graded by the National Electrical Manufacturers Association.

**PAGE "B" COATED ELECTRODES**—A smooth surface flux coated rod recommended for general electric welding with either A. C. or D. C. welding sets.

**PAGE-ARMCO ELECTRODES**—A flux coated rod recommended for welding iron and mild steel parts, tanks, etc.

These rods are stocked in  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ " and  $\frac{3}{8}$ " sizes, in standard 14" lengths, packed in 50 pound cartons properly tagged.

### CLASS "D" HEAVILY COATED ELECTRODES

Graded by the National Electrical Manufacturers Association.

**PAGE "A" HI-TENSILE ELECTRODES**—A flux coated shielded arc electrode suitable for flat, vertical and overhead welding. The weldmetal is dense, high in tensile strength, ductility and in resistance to corrosion and impact.

This rod is stocked in  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ " and  $\frac{3}{8}$ " sizes, in standard 14" lengths, packed in 50 pound cartons properly tagged.

**PAGE "C" GAS WELDING WIRE**—Meets the American Welding Society Specification G No. 1A. A bright copper finish rod recommended for general gas welding work such as structural shapes, repair parts, etc.

This rod is stocked in  $\frac{1}{16}$ ",  $\frac{3}{32}$ ",  $\frac{1}{8}$ ",  $\frac{5}{32}$ ",  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ " and  $\frac{3}{8}$ " sizes, in standard 36" lengths, packed in 50 pound cartons properly tagged.



## ECCO BRAND CAST IRON WELDING ROD FOR ACETYLENE WELDING

Our ECCO Brand Cast Iron Welding Rod is composed of the proper composition for welding grey iron. This rod has been developed with the proper analysis that assures easy flowing metal, high enough in silicon to melt easily and quickly and when cooled, can be machined without difficulty. It is thoroughly cleaned from all sand particles and external impurities that might interfere with its flowing qualities.

Prompt shipment from Erie stock in  $\frac{1}{8}$ ",  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ " and  $\frac{1}{2}$ " square, all in 24" lengths with the exception of the  $\frac{1}{8}$ " which is furnished in 20" lengths.

## OXWELD No. 25M BRONZE RODS

For Cast Iron, Brass, Bronze, etc. Prompt shipment from Erie stock in  $\frac{1}{8}$ ",  $\frac{3}{16}$ " and  $\frac{1}{4}$ " round—36" lengths only.

## HARD FACING WELDING RODS

|             |                       |
|-------------|-----------------------|
| Borod       | Stoody Manganese      |
| Stoodite    | Stoody Self Hardening |
| Silfram     | Stoody High Carbon    |
| Tube Borium |                       |

The above are trade names of hard facing welding rods which are used where resistance to abrasive wear and where extremely hard wearing surfaces are required.

Complete descriptive catalogue and prices furnished on request.

## CUTTING AND WELDING EQUIPMENT

Complete cutting and welding equipment and accessories carried in stock.

Descriptive catalogue and prices furnished on request.

## SOFT ANNEALED WIRE

(Black and Galvanized)

| Gauge No. | Black<br>Net Extra for Size | Galvanized<br>Net Extra for Size |
|-----------|-----------------------------|----------------------------------|
| 3         | .10                         | .35                              |
| 4         | .10                         | .35                              |
| 6         | Base                        | Base                             |
| 7         | "                           | "                                |
| 9         | "                           | "                                |
| 10        | .05                         | .05                              |
| 12        | .15                         | .20                              |
| 14        | .35                         | .55                              |
| 16        | .80                         | 1.05                             |

Carried in 100 lb. Coils.

Above extras to be added to the base price of Annealed or Galvanized Fence Wire.

# MACHINE BOLTS

## SQUARE HEADS AND SQUARE NUTS

### Cut Thread List

### American Standard

| Lgth.<br>in<br>In. | Wt.<br>100<br>Bolts | List<br>Price<br>100 | No. In<br>Std.<br>Pkg. | Lgth.<br>in<br>In. | Wt.<br>100<br>Bolts | List<br>Price<br>100 | No. In<br>Std.<br>Pkg. |
|--------------------|---------------------|----------------------|------------------------|--------------------|---------------------|----------------------|------------------------|
| $\frac{1}{4}$      |                     |                      |                        | $\frac{7}{16}$     |                     |                      |                        |
| $\frac{3}{4}$      | 2.4                 | \$1.10               | 100                    | 1                  | 11.2                | 3.95                 | 50                     |
| 1                  | 2.7                 | 1.15                 | 100                    | $1\frac{1}{4}$     | 12.2                | 4.10                 | 50                     |
| $1\frac{1}{4}$     | 3.0                 | 1.25                 | 100                    | $1\frac{1}{2}$     | 13.1                | 4.25                 | 50                     |
| $1\frac{1}{2}$     | 3.4                 | 1.30                 | 100                    | $1\frac{3}{4}$     | 14.1                | 4.55                 | 50                     |
| $1\frac{3}{4}$     | 3.7                 | 1.50                 | 100                    | 2                  | 15.0                | 4.55                 | 50                     |
| 2                  | 4.0                 | 1.50                 | 100                    | $2\frac{1}{4}$     | 16.0                | 4.85                 | 50                     |
| $2\frac{1}{4}$     | 4.3                 | 1.70                 | 100                    | $2\frac{1}{2}$     | 16.9                | 4.85                 | 50                     |
| $2\frac{1}{2}$     | 4.6                 | 1.70                 | 100                    | $2\frac{3}{4}$     | 17.9                | 5.20                 | 50                     |
| 3                  | 5.3                 | 1.85                 | 100                    | 3                  | 18.9                | 5.20                 | 50                     |
| 4                  | 6.6                 | 2.50                 | 100                    | $3\frac{1}{2}$     | 20.8                | 5.50                 | 50                     |
| $\frac{5}{16}$     |                     |                      |                        | 4                  | 22.7                | 5.85                 | 50                     |
| $\frac{3}{4}$      | 4.5                 | 1.70                 | 50                     | $4\frac{1}{2}$     | 24.6                | 6.15                 | 50                     |
| 1                  | 5.0                 | 1.75                 | 50                     | 5                  | 26.5                | 6.50                 | 50                     |
| $1\frac{1}{4}$     | 5.5                 | 1.80                 | 50                     | 6                  | 30.4                | 7.15                 | 50                     |
| $1\frac{1}{2}$     | 6.0                 | 1.95                 | 50                     | $\frac{1}{2}$      |                     |                      |                        |
| $1\frac{3}{4}$     | 6.5                 | 2.20                 | 50                     | 1                  | 15.7                | 4.60                 | 50                     |
| 2                  | 7.0                 | 2.20                 | 50                     | $1\frac{1}{4}$     | 16.9                | 4.80                 | 50                     |
| $2\frac{1}{4}$     | 7.5                 | 2.45                 | 50                     | $1\frac{1}{2}$     | 18.1                | 5.00                 | 50                     |
| $2\frac{1}{2}$     | 8.0                 | 2.45                 | 50                     | $1\frac{3}{4}$     | 19.3                | 5.35                 | 50                     |
| $2\frac{3}{4}$     | 8.6                 | 2.70                 | 50                     | 2                  | 20.5                | 5.35                 | 50                     |
| 3                  | 9.1                 | 2.70                 | 50                     | $2\frac{1}{4}$     | 21.7                | 5.75                 | 50                     |
| $3\frac{1}{2}$     | 10.1                | 2.95                 | 50                     | $2\frac{1}{2}$     | 22.9                | 5.75                 | 50                     |
| 4                  | 11.1                | 3.15                 | 50                     | $2\frac{3}{4}$     | 24.1                | 6.15                 | 50                     |
| 5                  | 13.1                | 3.80                 | 50                     | 3                  | 25.3                | 6.15                 | 50                     |
| $\frac{3}{8}$      |                     |                      |                        | $3\frac{1}{4}$     | 26.5                | 6.50                 | 50                     |
| $\frac{3}{4}$      | 6.9                 | 2.25                 | 50                     | $3\frac{1}{2}$     | 27.7                | 6.50                 | 50                     |
| $\frac{7}{8}$      | 7.3                 | 2.35                 | 50                     | 4                  | 30.1                | 6.85                 | 50                     |
| 1                  | 7.6                 | 2.35                 | 50                     | $4\frac{1}{2}$     | 32.5                | 7.25                 | 50                     |
| $1\frac{1}{4}$     | 8.3                 | 2.45                 | 50                     | 5                  | 34.9                | 7.65                 | 50                     |
| $1\frac{1}{2}$     | 9.0                 | 2.60                 | 50                     | $5\frac{1}{2}$     | 37.5                | 8.05                 | 50                     |
| $1\frac{3}{4}$     | 9.7                 | 2.90                 | 50                     | 6                  | 40.1                | 8.45                 | 50                     |
| 2                  | 10.4                | 2.90                 | 50                     | $6\frac{1}{2}$     | 42.7                | 10.15                | 50                     |
| $2\frac{1}{4}$     | 11.1                | 3.20                 | 50                     | 7                  | 45.3                | 10.60                | 50                     |
| $2\frac{1}{2}$     | 11.8                | 3.20                 | 50                     | $7\frac{1}{2}$     | 47.9                | 11.05                | 50                     |
| $2\frac{3}{4}$     | 12.5                | 3.50                 | 50                     | 8                  | 50.5                | 11.50                | 50                     |
| 3                  | 13.2                | 3.50                 | 50                     | $8\frac{1}{2}$     | 53.1                | 11.95                | 50                     |
| $3\frac{1}{4}$     | 13.9                | 3.80                 | 50                     | 9                  | 55.7                | 12.40                | 50                     |
| $3\frac{1}{2}$     | 14.6                | 3.80                 | 50                     | 10                 | 60.9                | 13.30                | 50                     |
| 4                  | 16.0                | 4.10                 | 50                     | 11                 | 66.1                | 14.70                | 25                     |
| $4\frac{1}{4}$     | 16.7                | 4.40                 | 50                     | 12                 | 71.3                | 15.60                | 25                     |
| $4\frac{1}{2}$     | 17.4                | 4.40                 | 50                     | 14                 | 81.7                | 17.40                | 25                     |
| 5                  | 18.8                | 4.80                 | 50                     | 16                 | 92.1                | 19.20                | 25                     |
| $5\frac{1}{2}$     | 20.2                | 5.10                 | 50                     | 18                 | 102.5               | 21.00                | 25                     |
| 6                  | 21.6                | 5.40                 | 50                     | $\frac{5}{8}$      |                     |                      |                        |
| 7                  | 24.4                | 6.85                 | 50                     | 1                  | 27.5                | 8.10                 | 25                     |
| 8                  | 27.2                | 7.50                 | 50                     | $1\frac{1}{4}$     | 29.5                | 8.35                 | 25                     |

Intermediate lengths take next higher list.

Bolts with other than American Standard square heads, standard extras.

Bolts with other than American Standard square nuts, with two nuts or with special thread lengths, standard extras.

We can also furnish these with Hexagon Nuts at standard extras.

# MACHINE BOLTS

## SQUARE HEADS AND SQUARE NUTS

### Cut Thread List — American Standard

| Lgth.<br>in<br>In. | Wt.<br>100<br>Bolts | List<br>Price<br>100 | No. In<br>Std.<br>Pkg. | Lgth.<br>in<br>In. | Wt.<br>100<br>Bolts | List<br>Price<br>100 | No. In<br>Std.<br>Pkg. |
|--------------------|---------------------|----------------------|------------------------|--------------------|---------------------|----------------------|------------------------|
| $\frac{5}{8}$      |                     |                      |                        | $\frac{3}{4}$      |                     |                      |                        |
| $1\frac{1}{2}$     | 31.5                | 8.60                 | 25                     | 10                 | 149.5               | 22.00                |                        |
| $1\frac{3}{4}$     | 33.5                | 9.10                 | 25                     | $10\frac{1}{2}$    | 155.3               | 23.30                |                        |
| 2                  | 35.6                | 9.10                 | 25                     | 11                 | 161.1               | 23.30                |                        |
| $2\frac{1}{4}$     | 37.6                | 9.60                 | 25                     | 12                 | 172.7               | 24.60                |                        |
| $2\frac{1}{2}$     | 39.6                | 9.60                 | 25                     | 13                 | 184.3               | 25.90                |                        |
| $2\frac{3}{4}$     | 41.6                | 10.10                | 25                     | 14                 | 195.9               | 27.20                |                        |
| 3                  | 43.7                | 10.10                | 25                     | 15                 | 207.5               | 28.50                |                        |
| $3\frac{1}{4}$     | 45.7                | 10.60                | 25                     | 16                 | 219.1               | 29.80                |                        |
| $3\frac{1}{2}$     | 47.7                | 10.60                | 25                     | 18                 | 242.3               | 32.40                |                        |
| $3\frac{3}{4}$     | 49.9                | 11.10                | 25                     | 20                 | 265.5               | 35.00                |                        |
| 4                  | 51.8                | 11.10                | 25                     | 21                 | 277.1               | 36.30                |                        |
| $4\frac{1}{2}$     | 55.8                | 11.60                | 25                     | 22                 | 288.7               | 37.60                |                        |
| 5                  | 59.9                | 12.10                | 25                     | 24                 | 311.9               | 40.20                |                        |
| $5\frac{1}{2}$     | 63.9                | 12.60                | 25                     | 26                 | 335.1               | 42.80                |                        |
| 6                  | 67.9                | 13.10                | 25                     | 28                 | 358.3               | 45.40                |                        |
| $6\frac{1}{2}$     | 71.9                | 13.60                | 25                     | 30                 | 381.5               | 48.00                |                        |
| 7                  | 75.9                | 14.10                | 25                     | $\frac{7}{8}$      |                     |                      |                        |
| $7\frac{1}{2}$     | 79.9                | 14.60                | 25                     | 2                  | 80.9                | 17.60                |                        |
| 8                  | 83.9                | 15.10                | 25                     | $2\frac{1}{4}$     | 84.9                | 18.50                |                        |
| 9                  | 92.0                | 16.10                |                        | $2\frac{1}{2}$     | 88.9                | 18.50                |                        |
| 10                 | 100.0               | 17.10                |                        | 3                  | 96.9                | 19.40                |                        |
| 11                 | 108.0               | 18.10                |                        | $3\frac{1}{2}$     | 104.9               | 20.30                |                        |
| 12                 | 116.0               | 19.10                |                        | 4                  | 112.9               | 21.20                |                        |
| 14                 | 132.0               | 21.10                |                        | $4\frac{1}{2}$     | 120.9               | 22.10                |                        |
| 16                 | 148.0               | 23.10                |                        | $4\frac{3}{4}$     | 124.9               | 23.00                |                        |
| 18                 | 164.0               | 25.10                |                        | 5                  | 128.9               | 23.00                |                        |
| 20                 | 180.0               | 27.10                |                        | $5\frac{1}{2}$     | 136.9               | 23.90                |                        |
| 22                 | 196.0               | 29.10                |                        | 6                  | 144.9               | 24.80                |                        |
| 24                 | 212.0               | 31.10                |                        | 7                  | 160.9               | 26.60                |                        |
| 26                 | 228.0               | 33.10                |                        | 8                  | 176.9               | 28.40                |                        |
| $\frac{3}{4}$      |                     |                      |                        | 9                  | 193.1               | 30.20                |                        |
| $1\frac{1}{4}$     | 47.6                | 10.95                |                        | 10                 | 209.3               | 32.00                |                        |
| $1\frac{1}{2}$     | 50.5                | 10.95                |                        | 12                 | 241.7               | 35.60                |                        |
| $1\frac{3}{4}$     | 53.4                | 11.60                |                        | 14                 | 274.1               | 39.20                |                        |
| 2                  | 56.3                | 11.60                |                        | 16                 | 306.5               | 42.80                |                        |
| $2\frac{1}{4}$     | 59.2                | 12.25                |                        | 18                 | 338.9               | 46.40                |                        |
| $2\frac{1}{2}$     | 62.1                | 12.25                |                        | 20                 | 371.3               | 50.00                |                        |
| $2\frac{3}{4}$     | 65.1                | 12.90                |                        | 22                 | 403.7               | 53.60                |                        |
| 3                  | 68.0                | 12.90                |                        | 24                 | 436.1               | 57.20                |                        |
| $3\frac{1}{4}$     | 70.9                | 13.55                |                        | 1                  |                     |                      |                        |
| $3\frac{1}{2}$     | 73.9                | 13.55                |                        | 3                  | 131.2               | 26.70                |                        |
| $3\frac{3}{4}$     | 76.8                | 14.20                |                        | $3\frac{1}{2}$     | 141.8               | 27.85                |                        |
| 4                  | 79.7                | 14.20                |                        | 4                  | 152.4               | 29.00                |                        |
| $4\frac{1}{4}$     | 82.7                | 14.85                |                        | $4\frac{1}{2}$     | 163.0               | 30.15                |                        |
| $4\frac{1}{2}$     | 85.6                | 14.85                |                        | 5                  | 173.6               | 31.30                |                        |
| $4\frac{3}{4}$     | 88.5                | 15.50                |                        | $5\frac{1}{2}$     | 184.2               | 32.45                |                        |
| 5                  | 91.5                | 15.50                |                        | 6                  | 194.8               | 33.60                |                        |
| $5\frac{1}{2}$     | 97.3                | 16.15                |                        | 7                  | 216.0               | 35.90                |                        |
| 6                  | 103.1               | 16.80                |                        | 8                  | 237.2               | 38.20                |                        |
| $6\frac{1}{2}$     | 108.9               | 17.45                |                        | 9                  | 258.4               | 40.50                |                        |
| 7                  | 114.7               | 18.10                |                        | 10                 | 279.6               | 42.80                |                        |
| $7\frac{1}{2}$     | 120.5               | 18.75                |                        | 12                 | 322.0               | 47.40                |                        |
| 8                  | 126.3               | 19.40                |                        | 14                 | 364.4               | 52.00                |                        |
| $8\frac{1}{2}$     | 132.1               | 20.05                |                        | 16                 | 406.8               | 56.60                |                        |
| 9                  | 137.9               | 20.70                |                        | 18                 | 449.2               | 61.20                |                        |
| $9\frac{1}{2}$     | 143.7               | 21.35                |                        | 20                 | 491.6               | 65.80                |                        |

Bolts of larger diameters or longer than listed can be furnished promptly. We can furnish special bolts of all kinds.



## CARRIAGE BOLTS

SQUARE NUTS  
Cut Thread List  
American Standard

| Lgth.<br>in<br>In. | Wt.<br>100<br>Bolts | List<br>Price<br>100 | No. In<br>Std.<br>Pkg. | Lgth.<br>in<br>In. | Wt.<br>100<br>Bolts | List<br>Price<br>100 | No. In<br>Std.<br>Pkg. |
|--------------------|---------------------|----------------------|------------------------|--------------------|---------------------|----------------------|------------------------|
| $\frac{1}{4}$      |                     |                      |                        | $\frac{7}{16}$     |                     |                      |                        |
| $\frac{3}{4}$      | 2.4                 | \$1.05               | 100                    | 1                  | 10.4                | 3.50                 | 50                     |
| 1                  | 2.7                 | 1.10                 | 100                    | $1\frac{1}{2}$     | 12.3                | 3.75                 | 50                     |
| $1\frac{1}{4}$     | 3.0                 | 1.15                 | 100                    | $1\frac{3}{4}$     | 13.2                | 4.05                 | 50                     |
| $1\frac{1}{2}$     | 3.3                 | 1.20                 | 100                    | 2                  | 14.2                | 4.05                 | 50                     |
| $1\frac{3}{4}$     | 3.6                 | 1.35                 | 100                    | $2\frac{1}{4}$     | 15.0                | 4.40                 | 50                     |
| 2                  | 3.9                 | 1.35                 | 100                    | $2\frac{1}{2}$     | 16.0                | 4.40                 | 50                     |
| $2\frac{1}{4}$     | 4.2                 | 1.55                 | 100                    | 3                  | 18.0                | 4.75                 | 50                     |
| $2\frac{1}{2}$     | 4.5                 | 1.55                 | 100                    | $3\frac{1}{2}$     | 20.0                | 5.10                 | 50                     |
| $2\frac{3}{4}$     | 4.9                 | 1.70                 | 100                    | 4                  | 22.0                | 5.40                 | 50                     |
| 3                  | 5.3                 | 1.70                 | 100                    | $4\frac{1}{2}$     | 24.0                | 5.75                 | 50                     |
| $3\frac{1}{4}$     | 5.6                 | 1.85                 | 100                    | 5                  | 26.0                | 6.10                 | 50                     |
| $3\frac{1}{2}$     | 5.9                 | 1.85                 | 100                    | 6                  | 30.0                | 6.80                 | 50                     |
| 4                  | 6.5                 | 2.30                 | 100                    | $\frac{1}{2}$      |                     |                      |                        |
| $\frac{5}{16}$     |                     |                      |                        | $1\frac{1}{4}$     | 16.3                | 4.40                 | 50                     |
| $\frac{3}{4}$      | 4.4                 | 1.60                 | 50                     | $1\frac{1}{2}$     | 17.6                | 4.60                 | 50                     |
| 1                  | 4.8                 | 1.65                 | 50                     | $1\frac{3}{4}$     | 18.9                | 4.95                 | 50                     |
| $1\frac{1}{4}$     | 5.2                 | 1.70                 | 50                     | 2                  | 20.2                | 4.95                 | 50                     |
| $1\frac{1}{2}$     | 5.7                 | 1.80                 | 50                     | $2\frac{1}{4}$     | 21.5                | 5.35                 | 50                     |
| $1\frac{3}{4}$     | 6.2                 | 2.00                 | 50                     | $2\frac{1}{2}$     | 22.8                | 5.35                 | 50                     |
| 2                  | 6.7                 | 2.00                 | 50                     | $2\frac{3}{4}$     | 24.1                | 5.75                 | 50                     |
| $2\frac{1}{4}$     | 7.2                 | 2.25                 | 50                     | 3                  | 25.4                | 5.75                 | 50                     |
| $2\frac{1}{2}$     | 7.7                 | 2.25                 | 50                     | $3\frac{1}{2}$     | 28.0                | 6.15                 | 50                     |
| $2\frac{3}{4}$     | 8.2                 | 2.50                 | 50                     | 4                  | 30.6                | 6.55                 | 50                     |
| 3                  | 8.7                 | 2.50                 | 50                     | $4\frac{1}{2}$     | 33.2                | 6.95                 | 50                     |
| $3\frac{1}{4}$     | 9.2                 | 2.75                 | 50                     | 5                  | 35.8                | 7.35                 | 50                     |
| $3\frac{1}{2}$     | 9.7                 | 2.75                 | 50                     | $5\frac{1}{2}$     | 38.4                | 7.80                 | 50                     |
| 4                  | 10.7                | 2.95                 | 50                     | 6                  | 41.0                | 8.20                 | 50                     |
| 5                  | 12.7                | 3.60                 | 50                     | $6\frac{1}{2}$     | 43.6                | 9.75                 | 50                     |
| $\frac{3}{8}$      |                     |                      |                        | 7                  | 46.2                | 10.20                | 50                     |
| 1                  | 7.4                 | 2.10                 | 50                     | $7\frac{1}{2}$     | 48.8                | 10.65                | 50                     |
| $1\frac{1}{4}$     | 8.0                 | 2.20                 | 50                     | 8                  | 51.4                | 11.10                | 50                     |
| $1\frac{1}{2}$     | 8.8                 | 2.35                 | 50                     | 9                  | 56.6                | 12.50                | 25                     |
| $1\frac{3}{4}$     | 9.5                 | 2.60                 | 50                     | 10                 | 61.8                | 13.40                | 25                     |
| 2                  | 10.2                | 2.60                 | 50                     | 12                 | 72.2                | 15.20                | 25                     |
| $2\frac{1}{4}$     | 10.9                | 2.90                 | 50                     | $\frac{5}{8}$      |                     |                      |                        |
| $2\frac{1}{2}$     | 11.6                | 2.90                 | 50                     | $1\frac{1}{2}$     | 30.0                | 8.60                 | 25                     |
| $2\frac{3}{4}$     | 12.3                | 3.20                 | 50                     | 2                  | 34.0                | 9.10                 | 25                     |
| 3                  | 13.0                | 3.20                 | 50                     | $2\frac{1}{2}$     | 38.0                | 9.60                 | 25                     |
| $3\frac{1}{4}$     | 13.7                | 3.50                 | 50                     | 3                  | 42.0                | 10.10                | 25                     |
| $3\frac{1}{2}$     | 14.4                | 3.50                 | 50                     | $3\frac{1}{2}$     | 46.0                | 10.60                | 25                     |
| 4                  | 15.8                | 3.80                 | 50                     | 4                  | 50.0                | 11.10                | 25                     |
| $4\frac{1}{2}$     | 17.2                | 4.10                 | 50                     | $4\frac{1}{2}$     | 54.0                | 11.60                | 25                     |
| 5                  | 18.6                | 4.50                 | 50                     | 5                  | 58.0                | 12.10                | 25                     |
| $5\frac{1}{2}$     | 20.0                | 4.80                 | 50                     | $5\frac{1}{2}$     | 62.0                | 12.60                | 25                     |
| 6                  | 21.4                | 5.10                 | 50                     | 6                  | 66.0                | 13.10                | 25                     |
|                    |                     |                      |                        | 8                  | 83.0                | 15.10                | 25                     |

Intermediate lengths take next higher list.

Bolts with other than American Standard Square heads or with other than American Standard square nuts and with two nuts or with special thread lengths, standard extras. Larger diameters, price quoted on receipt of specifications. We can also furnish these with Hexagon Nuts at standard extras.

# STOVE BOLTS

## ROUND AND FLAT HEAD

| Size<br>Ins.          | List<br>Price<br>100 | Approx. Wt.<br>100 Pieces |              | Size<br>Ins.          | List<br>Price<br>100 | Approx. Wt.<br>100 Pieces |              |
|-----------------------|----------------------|---------------------------|--------------|-----------------------|----------------------|---------------------------|--------------|
|                       |                      | Round<br>Head             | Flat<br>Head |                       |                      | Round<br>Head             | Flat<br>Head |
| $\frac{3}{16} \times$ |                      |                           |              | $\frac{1}{4} \times$  |                      |                           |              |
| $\frac{3}{8}$         | .67                  | .86                       | .78          | $\frac{5}{16}$        | 4.50                 | 6.75                      | 6.62         |
| $\frac{1}{2}$         | .70                  | .94                       | .85          | 6                     | 4.85                 | 7.24                      | 7.11         |
| $\frac{5}{8}$         | .73                  | 1.02                      | .93          | $\frac{5}{16} \times$ |                      |                           |              |
| $\frac{3}{4}$         | .76                  | 1.10                      | 1.01         | $\frac{3}{4}$         | 2.12                 | 3.57                      | 3.22         |
| $\frac{7}{8}$         | .79                  | 1.18                      | 1.09         | $\frac{7}{8}$         | 2.20                 | 3.78                      | 3.43         |
| 1                     | .83                  | 1.26                      | 1.17         | 1                     | 2.27                 | 3.98                      | 3.63         |
| $1\frac{1}{8}$        | .86                  | 1.34                      | 1.25         | $1\frac{1}{8}$        | 2.34                 | 4.19                      | 3.84         |
| $1\frac{1}{4}$        | .90                  | 1.42                      | 1.33         | $1\frac{1}{4}$        | 2.41                 | 4.39                      | 4.04         |
| $1\frac{3}{8}$        | .96                  | 1.50                      | 1.41         | $1\frac{3}{8}$        | 2.50                 | 4.60                      | 4.25         |
| $1\frac{1}{2}$        | 1.01                 | 1.57                      | 1.49         | $1\frac{1}{2}$        | 2.59                 | 4.80                      | 4.45         |
| $1\frac{3}{4}$        | 1.12                 | 1.73                      | 1.64         | $1\frac{3}{4}$        | 2.77                 | 5.21                      | 4.86         |
| 2                     | 1.27                 | 1.89                      | 1.80         | 2                     | 3.00                 | 5.62                      | 5.27         |
| $2\frac{1}{4}$        | 1.41                 | 2.05                      | 1.96         | $2\frac{1}{4}$        | 3.20                 | 6.03                      | 5.68         |
| $2\frac{1}{2}$        | 1.59                 | 2.21                      | 2.12         | $2\frac{1}{2}$        | 3.45                 | 6.44                      | 6.09         |
| $2\frac{3}{4}$        | 1.77                 | 2.36                      | 2.28         | $2\frac{3}{4}$        | 3.70                 | 6.85                      | 6.50         |
| 3                     | 1.95                 | 2.52                      | 2.43         | 3                     | 3.95                 | 7.26                      | 6.91         |
| $3\frac{1}{2}$        | 2.25                 | 2.84                      | 2.75         | $3\frac{1}{2}$        | 4.40                 | 8.08                      | 7.73         |
| 4                     | 2.55                 | 3.15                      | 3.07         | 4                     | 4.85                 | 8.90                      | 8.55         |
| $4\frac{1}{2}$        | 2.85                 | 3.47                      | 3.38         | $4\frac{1}{2}$        | 5.30                 | 9.72                      | 9.37         |
| 5                     | 3.15                 | 3.79                      | 3.70         | 5                     | 5.75                 | 10.54                     | 10.19        |
| $5\frac{1}{2}$        | 3.45                 | 4.10                      | 4.01         | $5\frac{1}{2}$        | 6.20                 | 11.36                     | 11.01        |
| 6                     | 3.75                 | 4.42                      | 4.33         | 6                     | 6.65                 | 12.18                     | 11.83        |
| $\frac{1}{4} \times$  |                      |                           |              | $\frac{3}{8} \times$  |                      |                           |              |
| $\frac{1}{2}$         | 1.12                 | 1.85                      | 1.72         | $\frac{3}{4}$         | 2.90                 | 4.94                      | 4.44         |
| $\frac{5}{8}$         | 1.18                 | 1.97                      | 1.84         | $\frac{7}{8}$         | 3.00                 | 5.23                      | 4.73         |
| $\frac{3}{4}$         | 1.25                 | 2.09                      | 1.97         | 1                     | 3.10                 | 5.53                      | 5.03         |
| $\frac{7}{8}$         | 1.31                 | 2.21                      | 2.09         | $1\frac{1}{8}$        | 3.20                 | 5.83                      | 5.33         |
| 1                     | 1.38                 | 2.34                      | 2.21         | $1\frac{1}{4}$        | 3.30                 | 6.12                      | 5.62         |
| $1\frac{1}{8}$        | 1.44                 | 2.46                      | 2.33         | $1\frac{3}{8}$        | 3.40                 | 6.42                      | 5.92         |
| $1\frac{1}{4}$        | 1.51                 | 2.58                      | 2.46         | $1\frac{1}{2}$        | 3.50                 | 6.71                      | 6.21         |
| $1\frac{3}{8}$        | 1.57                 | 2.70                      | 2.57         | $1\frac{3}{4}$        | 3.75                 | 7.31                      | 6.81         |
| $1\frac{1}{2}$        | 1.64                 | 2.83                      | 2.70         | 2                     | 4.00                 | 7.90                      | 7.40         |
| $1\frac{3}{4}$        | 1.80                 | 3.07                      | 2.95         | $2\frac{1}{4}$        | 4.25                 | 8.49                      | 7.99         |
| 2                     | 1.98                 | 3.32                      | 3.19         | $2\frac{1}{2}$        | 4.55                 | 9.08                      | 8.58         |
| $2\frac{1}{4}$        | 2.16                 | 3.56                      | 3.44         | $2\frac{3}{4}$        | 4.80                 | 9.67                      | 9.17         |
| $2\frac{1}{2}$        | 2.34                 | 3.81                      | 3.68         | 3                     | 5.20                 | 10.27                     | 9.77         |
| $2\frac{3}{4}$        | 2.55                 | 4.05                      | 3.93         | $3\frac{1}{2}$        | 5.80                 | 11.45                     | 10.95        |
| 3                     | 2.75                 | 4.30                      | 4.17         | 4                     | 6.40                 | 12.63                     | 12.13        |
| $3\frac{1}{2}$        | 3.10                 | 4.79                      | 4.66         | $4\frac{1}{2}$        | 7.00                 | 13.82                     | 13.32        |
| 4                     | 3.45                 | 5.28                      | 5.15         | 5                     | 7.60                 | 15.00                     | 14.50        |
| $4\frac{1}{2}$        | 3.80                 | 5.77                      | 5.64         | $5\frac{1}{2}$        | 8.20                 | 16.19                     | 15.69        |
| 5                     | 4.15                 | 6.26                      | 6.13         | 6                     | 8.80                 | 17.37                     | 16.87        |

## BOLT ENDS

We are in a position to furnish promptly bolt ends in all standard sizes.

## THREADED RODS

We are equipped to furnish all kinds and sizes of threaded rods, anchor bolts, eye bolts, truss rods with turnbuckles, stay rods, silo rods and special rods and bolts of all descriptions.

## COACH AND LAG SCREWS

### WITH SQUARE HEADS AND GIMLET POINTS

#### Manufacturers' Standard List

| Size<br>in<br>In. | Wt.<br>per<br>100 | List<br>Price<br>100 | No. In<br>Std.<br>Pkg. | Size<br>in<br>In. | Wt.<br>per<br>100 | List<br>Price<br>100 | No. In<br>Std.<br>Pkg. |
|-------------------|-------------------|----------------------|------------------------|-------------------|-------------------|----------------------|------------------------|
| $\frac{5}{16}$    |                   |                      |                        | $\frac{1}{2}$     |                   |                      |                        |
| $1\frac{1}{2}$    | 3.8               | \$2.15               | 100                    | 5                 | 26.7              | 7.10                 | 50                     |
| 2                 | 4.6               | 2.35                 | 100                    | 6                 | 31.5              | 8.00                 | 50                     |
| $2\frac{1}{2}$    | 5.5               | 2.55                 | 100                    | 7                 | 36.3              | 8.90                 | 50                     |
| 3                 | 6.4               | 2.80                 | 100                    | 8                 | 41.1              | 9.80                 | 50                     |
| $3\frac{1}{2}$    | 7.3               | 3.05                 | 100                    | $\frac{5}{8}$     |                   |                      |                        |
| 4                 | 8.2               | 3.30                 | 100                    | 2                 | 21.3              | 7.40                 | 25                     |
| $\frac{3}{8}$     |                   |                      |                        | $2\frac{1}{2}$    | 24.9              | 6.85                 | 25                     |
| $1\frac{1}{2}$    | 5.2               | 2.60                 | 50                     | 3                 | 28.6              | 7.50                 | 25                     |
| 2                 | 6.5               | 2.85                 | 50                     | $3\frac{1}{2}$    | 32.4              | 8.15                 | 25                     |
| $2\frac{1}{2}$    | 7.9               | 3.10                 | 50                     | 4                 | 36.2              | 8.80                 | 25                     |
| 3                 | 9.3               | 3.40                 | 50                     | $4\frac{1}{2}$    | 40.0              | 9.45                 | 25                     |
| $3\frac{1}{2}$    | 10.6              | 3.70                 | 50                     | 5                 | 43.8              | 10.10                | 25                     |
| 4                 | 12.0              | 4.00                 | 50                     | 6                 | 51.4              | 11.40                | 25                     |
| 5                 | 14.7              | 4.65                 | 50                     | 7                 | 59.0              | 12.70                | 25                     |
| 6                 | 17.4              | 5.35                 | 50                     | 8                 | 66.6              | 14.00                | 25                     |
| $\frac{1}{2}$     |                   |                      |                        | 9                 | 74.2              | 15.20                |                        |
| 2                 | 12.3              | 4.45                 | 50                     | 10                | 81.8              | 16.40                |                        |
| $2\frac{1}{2}$    | 14.7              | 4.85                 | 50                     | $\frac{3}{4}$     |                   |                      |                        |
| 3                 | 17.1              | 5.30                 | 50                     | 4                 | 55.6              | 13.70                |                        |
| $3\frac{1}{2}$    | 19.5              | 5.75                 | 50                     | 5                 | 66.2              | 15.50                |                        |
| 4                 | 21.9              | 6.20                 | 50                     | 6                 | 76.8              | 17.30                |                        |
| $4\frac{1}{2}$    | 24.3              | 6.65                 | 50                     | 8                 | 98.0              | 20.90                |                        |
|                   |                   |                      |                        | 10                | 119.2             | 24.40                |                        |

## STANDARD CAST IRON O. G. WASHERS

### Made of High Grade Iron

| Bolt<br>Size<br>Inches | Inside<br>Diameter<br>Inches | Outside<br>Diameter<br>Inches | Thickness       | Approx.<br>Weight |
|------------------------|------------------------------|-------------------------------|-----------------|-------------------|
| $\frac{1}{2}$          | $\frac{5}{8}$                | $2\frac{3}{8}$                | $\frac{5}{8}$   | 7.2 oz.           |
| $\frac{5}{8}$          | $\frac{3}{4}$                | $2\frac{3}{4}$                | $\frac{3}{4}$   | 9.6 oz.           |
| $\frac{3}{4}$          | $\frac{7}{8}$                | 3                             | $\frac{13}{16}$ | 1.4 lbs.          |
| $\frac{7}{8}$          | 1                            | $3\frac{1}{2}$                | $\frac{11}{16}$ | 1.6 lbs.          |
| 1                      | $1\frac{1}{8}$               | $4\frac{1}{8}$                | $\frac{13}{16}$ | 2.25 lbs.         |
| $1\frac{1}{8}$         | $1\frac{1}{4}$               | $4\frac{1}{2}$                | $\frac{15}{16}$ | 3 lbs.            |
| $1\frac{1}{4}$         | $1\frac{3}{8}$               | 5                             | $\frac{17}{16}$ | 4 lbs.            |
| $1\frac{1}{2}$         | $1\frac{3}{4}$               | 6                             | $\frac{19}{16}$ | 6 lbs.            |

## LOCK WASHERS

### No. 2 S. A. E. STANDARD

| Bolt<br>Size<br>Inches | Width and<br>Thickness<br>Inches    | List<br>Price<br>Per 1000 | Approx.<br>Weight<br>Per 1000 |
|------------------------|-------------------------------------|---------------------------|-------------------------------|
| $\frac{3}{16}$         | $\frac{1}{16} \times \frac{3}{64}$  | \$1.75                    | 11 oz.                        |
| $\frac{1}{4}$          | $\frac{3}{32} \times \frac{1}{16}$  | 2.25                      | 1 lb.-15 oz.                  |
| $\frac{5}{16}$         | $\frac{1}{8} \times \frac{1}{16}$   | 3.00                      | 3 lbs.-8 oz.                  |
| $\frac{3}{8}$          | $\frac{1}{8} \times \frac{3}{32}$   | 3.75                      | 6 lbs.                        |
| $\frac{7}{16}$         | $\frac{5}{32} \times \frac{1}{8}$   | 6.40                      | 10 lbs.                       |
| $\frac{1}{2}$          | $\frac{11}{64} \times \frac{1}{8}$  | 7.60                      | 15 lbs.                       |
| $\frac{5}{8}$          | $\frac{13}{64} \times \frac{5}{32}$ | 15.80                     | 25 lbs.                       |
| $\frac{3}{4}$          | $\frac{1}{4} \times \frac{3}{16}$   | 25.60                     | 45 lbs.                       |
| $\frac{7}{8}$          | $\frac{17}{64} \times \frac{3}{16}$ | 39.30                     | 50 lbs.                       |
| 1                      | $\frac{5}{16} \times \frac{1}{4}$   | 65.70                     | 92 lbs.                       |
| $1\frac{1}{4}$         | $\frac{3}{8} \times \frac{3}{8}$    | 120.00                    | 163 lbs.                      |
| $1\frac{1}{2}$         | $\frac{1}{2} \times \frac{3}{8}$    | 195.20                    | 265 lbs.                      |

Packed in boxes of 1000 pieces each.



**Why Heating Men OK FEDDERS UNIT HEATERS**

Mono-piece Cabinets

Quieter Operation

Streamline Louvers

Streamline Tubes

Full Floating Element Mountings eliminate expansion stresses

No Expansion Stresses between Adjacent Tubes

Handsome Cabinet Design and Finish

Write for Catalog on Complete Line

Built  
As Good  
As They  
Look

The Result  
of Fedders  
41 years of  
Heat  
Transfer  
Experience

## Install Fedders Unit Heaters and they STAY INSTALLED

The performance you get out of a unit heater is the result of the engineering that went into it.

Quieter operation and handsome, rugged mono-piece cabinets make them ideal for offices as well as factory installations.

Full-floating element mountings maintain alignment and eliminate expansion stresses between element and cabinet.

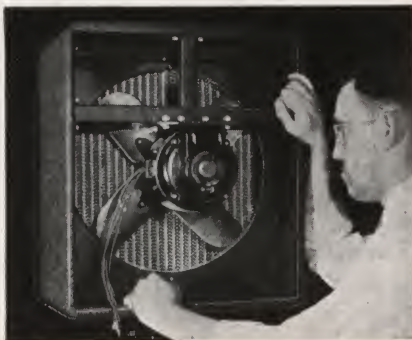
Streamline tubes with convoluted fins increase aero-dynamic and heat transfer efficiency. They also allow each tube to "give" laterally, thus preventing expansion stresses between neighboring tubes.

Tubes are welded to curved, non-diaphragmatic heaters, assuring maximum strength and a stable heating element.

21 Models from 75 to 1300 E. D. R.

Catalog 572 takes them apart for you, and shows why they can't commit suicide under severe service conditions.

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Erie Concrete & Steel  
Supply Co.



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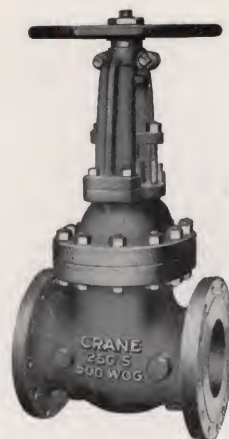


**WHOLESALE  
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PIPE, PLUMBING, HEATING,  
MILL SUPPLIES, ETC.

**FOR EPIE AND  
NORTHWESTERN PENNA.**



# TUBE-TURNS



**TUBE-TURNS** are steel welding fittings made of the same material as the pipe for use on practically all piping jobs and all ranges of pressure.

They are not pipe bends but are made at a forging temperature, improving the grain structure and leaving no "locked in" stresses.

We also carry a stock of welding neck flanges, Van Stone flanges, slip on type flanges and can furnish reducers, welding nipples and threaded adapters.

**ASK US FOR PRICES AND HAVE YOUR ENGINEER COMPARE MATERIAL AND LABOR COSTS IN USING THIS EQUIPMENT AGAINST REGULAR PIPE AND FITTINGS.**

**Distributors—  
Erie Concrete & Steel Supply Co.**





# STANDARD WROUGHT WASHERS

## STANDARD LIST PRICES

In 200 Pound Kegs

| Bolt Size<br>Inches | Outside<br>Diameter<br>Inches | Size<br>of<br>Hole | Thickness<br>Wire<br>Gauge | Price<br>Per<br>100 Lbs. | Est.<br>No. in<br>100 Lbs. |
|---------------------|-------------------------------|--------------------|----------------------------|--------------------------|----------------------------|
| 3/16                | 9/16                          | 1/4                | 18(3/64)                   | \$14.00                  | 34500                      |
| 1/4                 | 3/4                           | 5/16               | 16(1/16)                   | 12.20                    | 15600                      |
| 5/16                | 7/8                           | 3/8                | 16(1/16)                   | 11.40                    | 11250                      |
| 3/8                 | 1                             | 7/16               | 14(5/64)                   | 10.50                    | 6800                       |
| 7/16                | 1 1/4                         | 1/2                | 14(5/64)                   | 9.80                     | 4300                       |
| 1/2                 | 1 3/8                         | 9/16               | 12(7/64)                   | 9.40                     | 2600                       |
| 9/16                | 1 1/2                         | 5/8                | 12(7/64)                   | 9.30                     | 2250                       |
| 5/8                 | 1 3/4                         | 11/16              | 10(9/64)                   | 9.30                     | 1300                       |
| 3/4                 | 2                             | 13/16              | 9(5/32)                    | 9.20                     | 900                        |
| 7/8                 | 2 1/4                         | 15/16              | 8(11/64)                   | 9.20                     | 782                        |
| 1                   | 2 1/2                         | 1 1/16             | 8(11/64)                   | 9.20                     | 568                        |
| 1 1/8               | 2 3/4                         | 1 1/4              | 8(11/64)                   | 9.20                     | 473                        |
| 1 1/4               | 3                             | 1 3/8              | 8(11/64)                   | 9.20                     | 364                        |
| 1 3/8               | 3 1/4                         | 1 1/2              | 7(3/16)                    | 9.20                     | 275                        |
| 1 1/2               | 3 1/2                         | 1 5/8              | 7(3/16)                    | 9.20                     | 256                        |

# HOT PRESSED SQUARE AND HEXAGON NUTS

UNITED STATES STANDARD SIZES

Manufacturers' Standard List, per 100 pieces

| Size<br>Bolt<br>In-<br>ches | Width<br>Inches | Thick-<br>ness<br>Inches | Hole<br>Inches | In 200 -lb. Kegs |        |                       |         |        |                       |
|-----------------------------|-----------------|--------------------------|----------------|------------------|--------|-----------------------|---------|--------|-----------------------|
|                             |                 |                          |                | Square           |        |                       | Hexagon |        |                       |
|                             |                 |                          |                | Blank            | Tapped | Est. Wt.<br>1000 Pcs. | Blank   | Tapped | Est. Wt.<br>1000 Pcs. |
| 1/4                         | 1/2             | 1/4                      | 3/16           | .50              | .55    | 13.4                  | .60     | .65    | 11.8                  |
| 5/16                        | 19/32           | 5/16                     | 1/4            | .70              | .75    | 22.0                  | .85     | .90    | 19.3                  |
| 3/8                         | 11/16           | 3/8                      | 19/64          | 1.00             | 1.05   | 36.2                  | 1.15    | 1.20   | 31.6                  |
| 7/16                        | 25/32           | 7/16                     | 11/32          | 1.40             | 1.50   | 53.9                  | 1.65    | 1.75   | 46.9                  |
| 1/2                         | 7/8             | 1/2                      | 13/32          | 1.85             | 2.00   | 76.1                  | 2.10    | 2.25   | 66.1                  |
| 9/16                        | 31/32           | 9/16                     | 29/64          | 2.10             | 2.30   | 103.9                 | 2.35    | 2.55   | 90.1                  |
| 5/8                         | 1 1/16          | 5/8                      | 33/64          | 2.55             | 2.70   | 137.7                 | 2.80    | 3.00   | 119.2                 |
| 3/4                         | 1 1/4           | 3/4                      | 5/8            | 3.60             | 3.80   | 225.0                 | 4.05    | 4.30   | 194.1                 |
| 7/8                         | 1 7/16          | 7/8                      | 47/64          | 5.65             | 6.10   | 343.0                 | 6.30    | 6.80   | 295.0                 |
| 1                           | 1 5/8           | 1                        | 27/32          | 7.80             | 8.30   | 497.0                 | 8.75    | 9.30   | 427.0                 |
| 1 1/8                       | 1 13/16         | 1 1/8                    | 15/16          | 11.25            | 11.90  | 692.1                 | 12.35   | 13.10  | 594.0                 |
| 1 1/4                       | 2               | 1 1/4                    | 1 1/16         | 14.85            | 15.60  | 926.0                 | 16.50   | 17.35  | 793.0                 |
| 1 3/8                       | 2 3/16          | 1 3/8                    | 15/32          | 20.10            | 21.00  | 1217.7                | 22.30   | 23.30  | 1042.0                |
| 1 1/2                       | 2 3/8           | 1 1/2                    | 19/32          | 26.95            | 28.15  | 1552.8                | 29.95   | 31.30  | 1326.0                |
| 1 5/8                       | 2 9/16          | 1 5/8                    | 1 13/32        | 38.90            | 40.85  | 1951.7                | 43.25   | 45.40  | 1666.0                |
| 1 3/4                       | 2 3/4           | 1 3/4                    | 1 1/2          | 50.40            | 52.50  | 2419.3                | 56.00   | 58.30  | 2075.0                |
| 1 7/8                       | 2 15/16         | 1 7/8                    | 1 5/8          | 66.20            | 69.10  | 2938.9                | 73.50   | 76.80  | 2505.0                |
| 2                           | 3 1/8           | 2                        | 1 23/32        | 75.00            | 78.60  | 3549.5                | 81.20   | 85.15  | 3025.0                |
| 2 1/4                       | 3 1/2           | 2 1/4                    | 1 15/16        | 130.00           | 143.00 | 4963.1                | 113.40  | 122.20 | 4221.0                |
| 2 1/2                       | 3 7/8           | 2 1/2                    | 2 1/16         | 182.00           | 200.00 | 6738.1                | 155.90  | 170.20 | 5726.0                |
| 2 3/4                       | 4 1/4           | 2 3/4                    | 2 7/16         | 230.00           | 250.00 | 8307.3                | 207.40  | 226.00 | 7421.0                |
| 3                           | 4 5/8           | 3                        | 2 5/8          | 332.00           | 360.00 | 10816.5               | 310.80  | 338.00 | 10076.0               |

## HEXAGON HEAD CAP SCREWS

AMERICAN STANDARD COARSE (U. S. S.) THREAD

List Price Per 100

| Diameter of Screw                  | 1/4   | 5/16   | 3/8    | 7/16   | 1/2   | 9/16  | 5/8   | 3/4   | 7/8   | 1     |
|------------------------------------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| Threads to Inch                    | 20    | 18     | 16     | 14     | 13    | 12    | 11    | 10    | 9     | 8     |
| Length under Head to Extreme Point | 1/2   | \$1.30 | \$1.50 | \$1.90 | ..... | ..... | ..... | ..... | ..... | ..... |
|                                    | 5/8   | 1.35   | 1.60   | 2.00   | ..... | ..... | ..... | ..... | ..... | ..... |
|                                    | 3/4   | 1.40   | 1.70   | 2.10   | 3.00  | 4.70  | ..... | ..... | ..... | ..... |
|                                    | 7/8   | 1.50   | 1.80   | 2.20   | 3.10  | 4.90  | ..... | ..... | ..... | ..... |
|                                    | 1     | 1.60   | 1.90   | 2.30   | 3.20  | 5.10  | 7.90  | 8.60  | ..... | ..... |
|                                    | 1 1/4 | 1.80   | 2.10   | 2.50   | 3.50  | 5.50  | 8.40  | 9.20  | 13.30 | ..... |
|                                    | 1 1/2 | 2.00   | 2.30   | 2.70   | 3.80  | 5.90  | 8.90  | 9.80  | 14.10 | ..... |
|                                    | 1 3/4 | 2.20   | 2.50   | 3.00   | 4.10  | 6.30  | 9.40  | 10.40 | 14.90 | ..... |
|                                    | 2     | 2.40   | 2.70   | 3.30   | 4.50  | 6.70  | 10.00 | 11.00 | 15.70 | 24.60 |
|                                    | 2 1/4 | 2.60   | 2.90   | 3.60   | 4.90  | 7.20  | 10.60 | 11.60 | 16.50 | 25.80 |
|                                    | 2 1/2 | 2.80   | 3.20   | 3.90   | 5.30  | 7.70  | 11.20 | 12.20 | 17.30 | 27.20 |
|                                    | 2 3/4 | 3.00   | 3.50   | 4.30   | 5.70  | 8.20  | 11.80 | 12.80 | 18.10 | 28.60 |
|                                    | 3     | 3.30   | 3.80   | 4.70   | 6.20  | 8.70  | 12.40 | 13.50 | 18.90 | 30.00 |
|                                    | 3 1/4 | 4.00   | 4.60   | 5.30   | 6.70  | 9.20  | 13.00 | 14.20 | 19.80 | 31.50 |
|                                    | 3 1/2 | 4.70   | 5.40   | 5.90   | 7.20  | 9.80  | 13.60 | 15.00 | 20.80 | 33.00 |
|                                    | 3 3/4 | .....  | .....  | 6.80   | 7.90  | 10.40 | 14.30 | 15.80 | 21.80 | 35.00 |
|                                    | 4     | .....  | .....  | 7.70   | 8.60  | 11.00 | 15.00 | 16.60 | 22.80 | 37.00 |
|                                    | 4 1/2 | .....  | .....  | .....  | ..... | 13.40 | 17.50 | 18.60 | 25.50 | 41.00 |
|                                    | 5     | .....  | .....  | .....  | ..... | ..... | 22.60 | 30.90 | 45.00 | 68.00 |
|                                    | 5 1/2 | .....  | .....  | .....  | ..... | ..... | ..... | ..... | 54.00 | 80.00 |
|                                    | 6     | .....  | .....  | .....  | ..... | ..... | ..... | ..... | 63.00 | 92.00 |
| *Add for each 1/4 in.              | .70   | .80    | .90    | 1.00   | 1.20  | 1.50  | 2.00  | 2.70  | 4.50  | 6.00  |
| Quantity per Pkg.                  | 100   | 100    | 50     | 50     | 50    | 25    | 25    | 25    | 20    | 20    |

\*Add for each 1/4-inch the above extras for lengths longer than listed.

Screws with S.A.E. threads can be furnished promptly.

Length of thread equals two times the diameter plus 1/4-inch.

## SQUARE HEAD AND SOCKET SET SCREWS

CUP POINT—COARSE (U.S.S.) THREAD

1/4 x 3/16, 1/4, 5/16, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2

5/16 x 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2

3/8 x 5/16, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 2

7/16 x 7/16, 1/2, 3/4

1/2 x 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2

9/16 x 9/16

5/8 x 1/2, 5/8, 3/4, 1, 1 1/2, 2

3/4 x 3/4, 1

7/8 x 7/8, 1 1/8

1 x 1, 1 1/4

## EXPANSION SHIELDS

Long and short standard shields to be used with all sizes of coach and lag screws and for Expansion Bolts furnished promptly.

## RIVETS

We carry in our Erie warehouse stock a large quantity of both button head and cone head rivets in all of the popular sizes. We solicit your inquiries.

# STANDARD STEEL BRIGHT WIRE NAILS

## COMMON

| Size | Net<br>Ex. for<br>Size | Lgth.<br>in<br>Inches | Gauge | Size | Net<br>Ex. for<br>Size | Lgth.<br>in<br>Inches | Gauge |
|------|------------------------|-----------------------|-------|------|------------------------|-----------------------|-------|
| 2d   | 1.65                   | 1                     | 15    | 10d  | .40                    | 3                     | 9     |
| 3d   | 1.15                   | 1¼                    | 14    | 12d  | .35                    | 3¼                    | 9     |
| 4d   | .80                    | 1½                    | 12½   | 16d  | .30                    | 3½                    | 8     |
| 5d   | .70                    | 1¾                    | 12½   | 20d  | .25                    | 4                     | 6     |
| 6d   | .60                    | 2                     | 11½   | 30d  | .25                    | 4½                    | 5     |
| 7d   | .55                    | 2¼                    | 11½   | 40d  | .25                    | 5                     | 4     |
| 8d   | .50                    | 2½                    | 10¼   | 50d  | .25                    | 5½                    | 3     |
| 9d   | .45                    | 2¾                    | 10¼   | 60d  | .25                    | 6                     | 2     |

## SMOOTH BRIGHT BOX

|    |      |    |     |     |     |    |     |
|----|------|----|-----|-----|-----|----|-----|
| 3d | 1.15 | 1¼ | 14½ | 7d  | .60 | 2¼ | 12½ |
| 4d | 1.00 | 1½ | 14  | 8d  | .55 | 2½ | 11½ |
| 5d | .90  | 1¾ | 14  | 10d | .45 | 3  | 10½ |
| 6d | .65  | 2  | 12½ |     |     |    |     |

## FINISHING

|    |      |    |     |     |     |    |     |
|----|------|----|-----|-----|-----|----|-----|
| 3d | 1.60 | 1¼ | 15½ | 10d | .55 | 3  | 11½ |
| 4d | 1.45 | 1½ | 15  | 12d | .50 | 3¼ | 11½ |
| 6d | .80  | 2  | 13  | 16d | .45 | 3½ | 11  |
| 8d | .65  | 2½ | 12½ | 20d | .35 | 4  | 10  |

## STANDARD CASING

|    |      |    |     |     |     |    |     |
|----|------|----|-----|-----|-----|----|-----|
| 4d | 1.05 | 1½ | 14  | 10d | .50 | 3  | 10½ |
| 5d | .95  | 1¾ | 14  | 12d | .45 | 3¼ | 10½ |
| 6d | .70  | 2  | 12½ | 16d | .40 | 3½ | 10  |
| 8d | .60  | 2½ | 11½ |     |     |    |     |

## FLOORING BRADS

|    |     |    |    |     |     |   |   |
|----|-----|----|----|-----|-----|---|---|
| 6d | .65 | 2  | 11 | 10d | .45 | 3 | 9 |
| 8d | .55 | 2½ | 10 |     |     |   |   |

## FINE

|    |      |   |     |    |      |    |    |
|----|------|---|-----|----|------|----|----|
| 2d | 2.20 | 1 | 16½ | 3d | 1.60 | 1½ | 15 |
|----|------|---|-----|----|------|----|----|

## STERILIZED BLUED LATH

|    |      |   |     |    |      |    |    |
|----|------|---|-----|----|------|----|----|
| 2d | 2.55 | 1 | 16½ | 3d | 1.95 | 1½ | 15 |
|----|------|---|-----|----|------|----|----|

## BLUED PLASTER BOARD

|    |      |    |    |    |      |    |    |
|----|------|----|----|----|------|----|----|
| 1½ | 2.20 | 1½ | 13 | 1¼ | 2.10 | 1¼ | 13 |
|----|------|----|----|----|------|----|----|

## BARBED BARREL

|   |      |   |     |   |      |   |     |
|---|------|---|-----|---|------|---|-----|
| ¾ | 2.10 | ¾ | 15½ | 1 | 1.25 | 1 | 14½ |
| ⅞ | 1.45 | ⅞ | 14½ |   |      |   |     |

## HOT GALVANIZED SHINGLE

|     |      |    |     |    |     |    |    |
|-----|------|----|-----|----|-----|----|----|
| 3d  | 1.05 | 1¼ | 13  | 4d | .80 | 1½ | 12 |
| 3½d | .85  | 1¾ | 12½ |    |     |    |    |

Standard galvanizing extras to apply.



## STANDARD STEEL BRIGHT WIRE NAILS

## GALVANIZED SLATING

| Size | Net<br>Ex. for<br>Size | Lgth.<br>in<br>Inches | Gauge | Size | Net<br>Ex. for<br>Size | Lgth.<br>in<br>Inches | Gauge |
|------|------------------------|-----------------------|-------|------|------------------------|-----------------------|-------|
| 3d   | 1.00                   | 1¼                    | 10½   | 4d   | .85                    | 1½                    | 10½   |

Standard galvanizing extras to apply.

## BARBED BRIGHT BOX

|    |      |    |     |     |     |    |     |
|----|------|----|-----|-----|-----|----|-----|
| 4d | 1.25 | 1½ | 14  | 8d  | .80 | 2½ | 11½ |
| 6d | .90  | 2  | 12½ | 10d | .70 | 3  | 10½ |

## STANDARD BARBED—COMMON

|    |      |    |     |     |     |    |     |
|----|------|----|-----|-----|-----|----|-----|
| 4d | 1.05 | 1½ | 12½ | 8d  | .75 | 2½ | 10¼ |
| 5d | .95  | 1¾ | 12½ | 10d | .65 | 3  | 9   |
| 6d | .85  | 2  | 11½ |     |     |    |     |

## STANDARD HEAD BARBED ROOFING

|     |      |     |    |    |     |    |    |
|-----|------|-----|----|----|-----|----|----|
| ¾   | 1.55 | ¾   | 13 | 1¼ | .95 | 1¼ | 11 |
| 7/8 | 1.30 | 7/8 | 12 | 1½ | .80 | 1½ | 10 |
| 1   | 1.20 | 1   | 12 | 1¾ | .75 | 1¾ | 10 |
| 1½  | 1.10 | 1½  | 12 | 2  | .65 | 2  | 9  |

## LARGE HEAD (½") BARBED HOT GALVANIZED ROOFING

|     |      |     |    |    |      |    |    |
|-----|------|-----|----|----|------|----|----|
| ¾   | 1.65 | ¾   | 10 | 1¼ | 1.35 | 1¼ | 10 |
| 7/8 | 1.55 | 7/8 | 10 | 1½ | 1.30 | 1½ | 10 |
| 1   | 1.45 | 1   | 10 | 1¾ | 1.25 | 1¾ | 10 |
| 1½  | 1.40 | 1½  | 10 | 2  | 1.25 | 2  | 10 |

Standard galvanizing extras to apply.

## LEAD HEADED

| Size | Gauge | Head   | Size | Gauge | Head   |
|------|-------|--------|------|-------|--------|
| 1½"  | 10    | 15/32" | 2¼"  | 10    | 15/32" |
| 1¾"  | 10    | 15/32" | 2½"  | 10    | 15/32" |
| 2"   | 10    | 15/32" |      |       |        |

SMOOTH FOUNDRY  
(Diameter of Head ½")

| Size | No. | Net<br>Ex. for<br>Size | Lgth.<br>in<br>Inches | Gauge | Size | No. | Net<br>Ex. for<br>Size | Lgth.<br>in<br>Inches | Gauge |
|------|-----|------------------------|-----------------------|-------|------|-----|------------------------|-----------------------|-------|
| 2    | 10  | 1.35                   | 2                     | 10    | 4    | 10  | 1.20                   | 4                     | 10    |
| 2½   | 10  | 1.30                   | 2½                    | 10    | 4½   | 10  | 1.20                   | 4½                    | 10    |
| 3    | 10  | 1.20                   | 3                     | 10    | 5    | 10  | 1.20                   | 5                     | 10    |
| 3½   | 10  | 1.20                   | 3½                    | 10    | 5½   | 10  | 1.20                   | 5½                    | 10    |
|      |     |                        |                       |       | 6    | 10  | 1.20                   | 6                     | 10    |

# STANDARD STEEL COATED WIRE NAILS

## COOLERS

| Size | Net<br>Ex. for<br>Size | Lgth.<br>in<br>Inches | Gauge            | Size | Net<br>Ex. for<br>Size | Lgth.<br>in<br>Inches | Gauge            |
|------|------------------------|-----------------------|------------------|------|------------------------|-----------------------|------------------|
| 2d   | 2.40                   | 1                     | 16               | 7d   | .90                    | 2 $\frac{1}{8}$       | 12 $\frac{1}{2}$ |
| 3d   | 1.90                   | 1 $\frac{1}{8}$       | 15 $\frac{1}{2}$ | 8d   | .75                    | 2 $\frac{3}{8}$       | 11 $\frac{1}{2}$ |
| 4d   | 1.55                   | 1 $\frac{3}{8}$       | 14               | 9d   | .75                    | 2 $\frac{5}{8}$       | 11 $\frac{1}{2}$ |
| 5d   | 1.35                   | 1 $\frac{5}{8}$       | 13 $\frac{1}{2}$ | 10d  | .65                    | 2 $\frac{7}{8}$       | 11               |
| 6d   | 1.15                   | 1 $\frac{7}{8}$       | 13               |      |                        |                       |                  |

## SINKERS

|     |     |                 |    |     |     |                 |   |
|-----|-----|-----------------|----|-----|-----|-----------------|---|
| 12d | .55 | 3 $\frac{1}{8}$ | 10 | 40d | .35 | 4 $\frac{3}{4}$ | 5 |
| 16d | .45 | 3 $\frac{1}{4}$ | 9  | 50d | .35 | 5 $\frac{1}{4}$ | 4 |
| 20d | .35 | 3 $\frac{3}{4}$ | 7  | 60d | .35 | 5 $\frac{3}{4}$ | 3 |
| 30d | .35 | 4 $\frac{1}{4}$ | 6  |     |     |                 |   |

## COATED BOX

|    |      |                 |                  |     |      |                 |                  |
|----|------|-----------------|------------------|-----|------|-----------------|------------------|
| 2d | 2.55 | 1               | 16 $\frac{1}{2}$ | 7d  | 1.20 | 2 $\frac{1}{8}$ | 13 $\frac{1}{2}$ |
| 3d | 2.05 | 1 $\frac{1}{8}$ | 16               | 8d  | 1.00 | 2 $\frac{3}{8}$ | 12 $\frac{1}{2}$ |
| 4d | 1.90 | 1 $\frac{3}{8}$ | 15 $\frac{1}{2}$ | 9d  | 1.00 | 2 $\frac{5}{8}$ | 12 $\frac{1}{2}$ |
| 5d | 1.70 | 1 $\frac{5}{8}$ | 15               | 10d | .90  | 2 $\frac{7}{8}$ | 11 $\frac{1}{2}$ |
| 6d | 1.30 | 1 $\frac{7}{8}$ | 13 $\frac{1}{2}$ |     |      |                 |                  |

## DOUBLE HEADED NAILS (NOT COATED)

|     |      |                 |                  |     |    |  |   |
|-----|------|-----------------|------------------|-----|----|--|---|
| 6d  | 3.40 | 2               | 11 $\frac{1}{2}$ | 16d | 2. |  | 8 |
| 8d  | 3.20 | 2 $\frac{1}{2}$ | 10 $\frac{1}{4}$ | 20d | 2. |  | 6 |
| 10d | 3.00 | 3               | 9                |     |    |  |   |

## STAPLES

### POLISHED FENCE STAPLES

|                 |      |                 |   |                 |      |                 |   |
|-----------------|------|-----------------|---|-----------------|------|-----------------|---|
| $\frac{7}{8}$   | Base | $\frac{7}{8}$   | 9 | 1 $\frac{1}{4}$ | Base | 1 $\frac{1}{4}$ | 9 |
| 1               | "    | 1               | 9 | 1 $\frac{1}{2}$ | "    | 1 $\frac{1}{2}$ | 9 |
| 1 $\frac{1}{8}$ | "    | 1 $\frac{1}{8}$ | 9 | 1 $\frac{3}{4}$ | "    | 1 $\frac{3}{4}$ | 9 |

### GALVANIZED FENCE STAPLES

|                 |      |                 |   |                 |      |                 |   |
|-----------------|------|-----------------|---|-----------------|------|-----------------|---|
| $\frac{7}{8}$   | Base | $\frac{7}{8}$   | 9 | 1 $\frac{1}{2}$ | Base | 1 $\frac{1}{2}$ | 9 |
| 1               | "    | 1               | 9 | 1 $\frac{3}{4}$ | "    | 1 $\frac{3}{4}$ | 9 |
| 1 $\frac{1}{8}$ | "    | 1 $\frac{1}{8}$ | 9 | 2               | "    | 2               | 9 |
| 1 $\frac{1}{4}$ | "    | 1 $\frac{1}{4}$ | 9 |                 |      |                 |   |

## POULTRY NETTING STAPLES (GALVANIZED)

|               |      |               |    |   |      |   |    |
|---------------|------|---------------|----|---|------|---|----|
| $\frac{3}{4}$ | Base | $\frac{3}{4}$ | 14 | 1 | Base | 1 | 14 |
| $\frac{7}{8}$ | "    | $\frac{7}{8}$ | 14 |   |      |   |    |

## GALVANNEALED BARBED WIRE

### 80 Rod Spools

|                       | Net<br>Wt.<br>Spool | Strand<br>Wire<br>Gauge | Barb<br>Gauge | Space<br>Between<br>Barbs |
|-----------------------|---------------------|-------------------------|---------------|---------------------------|
| Ruthless 4 Pt. Cattle | 85                  | 12 $\frac{1}{2}$        | 14            | 6                         |
| Ruthless 4 Pt. Hog    | 92                  | 12 $\frac{1}{2}$        | 14            | 4                         |

## FIELD AND POULTRY FENCE

Red Brand Square Deal Galvannealed Copperbearing Field and Poultry Fence in all heights and styles.

## POULTRY NETTING

Hexagon Mesh and Straight Line Poultry Netting in all heights and styles.

## FENCE POSTS

Drive Fence Posts in angle, channel, tee and tubular types in all standard heights and sizes.

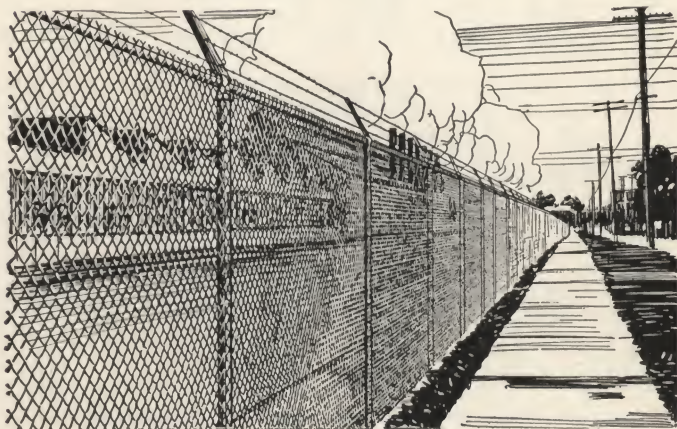
## LAWN FENCE—FLOWER BED BORDER

Lawn Fence and Flower Bed Border in all standard heights and styles.

## NON-CLIMBABLE FENCE

Furnished in 2 x 2 or 2 x 4 mesh as well as triangle mesh in all standard heights and gauges.

## PROTECTION FENCE



**Chain Link Fencing** for protection and ornamental purposes of every description—made in galvanized copper-bearing steel, galvanized Armco Ingot Iron and Aluminum.

**Wrought Iron Fencing** for industrial, institutional and residential purposes.

**Industrial Fencing** for factories, mills, refineries, railroads, power stations, mines, yards, etc.

**Fencing** for city, state and national institutions, including schools, parks, playgrounds, prisons, hospitals, etc.

**Enclosures** for athletic fields, tennis courts, baseball grounds, amusement parks, aviation fields, automobile parking enclosures, etc.



## CONCRETE REINFORCING BARS

Deformed Rounds—Intermediate Grade

| Size<br>Inches | Wt. per Ft.<br>Lbs. | Net Extra<br>For Size | Stock Lgths.<br>Feet |
|----------------|---------------------|-----------------------|----------------------|
| $\frac{3}{8}$  | .376                | .40                   | 40-60                |
| $\frac{1}{2}$  | .668                | .20                   | 40-60                |
| $\frac{5}{8}$  | 1.043               | .10                   | 40-60                |
| $\frac{3}{4}$  | 1.502               | Base                  | 40-60                |
| $\frac{7}{8}$  | 2.044               | "                     | 40-60                |
| 1              | 2.670               | "                     | 40-60                |

**Reinforcing Bar Accessories** (chairs, spacers, ties, etc.) and expansible and rigid reed clips for reinforcing fireproofing on structural steel available for prompt shipment.

Descriptive catalogue and prices furnished on request.

## PLAIN ELECTRIC WELDED FABRIC

A reinforcement for light slabs in buildings, sidewalks, roadways, etc. Also used for column and beam wrapping.

Furnished in rolls 5 feet wide by 100 to 150 feet long.

Carried in stock in 33-1010; 33-1212; 44-1414; 66-66; 66-88; 66-1010 and 66-1212.

## STEELCRETE EXPANDED METAL REINFORCEMENT

A cold drawn diamond expanded metal fabric in flat sheets suitable for concrete reinforcement, furnished in standard weights and sizes.

## METAL LATH

**Diamond Lath**—An expanded metal lath used as a base and reinforcement for all types of plastering work, also for fireproofing, etc.

Furnished in the following sizes:

Weight Painted

2.2 lb. per Sq. Yd.

2.5 lb. per Sq. Yd.

3.0 lb. per Sq. Yd.

3.4 lb. per Sq. Yd.

Weight Galvanized

2.5 lb. per Sq. Yd.

3.4 lb. Per Sq. Yd.

Size of sheet: 27" x 96"—Packed 10 Sheets per Bundle—20 Sq. Yds.

**Bar-X Lath**—A reinforced diamond mesh lath for the better type jobs. Furnished in painted, weight 3.4 lb., 4.2 lb. and 4.6 lb. per Sq. Yd.

Size of sheet: 24" x 96"—Packed 9 Sheets per Bundle—16 Sq. Yds.

**3-Mesh Flat Rib Lath**—A guide for the plasterer and a saver of plaster as well as giving unusual strength to the entire sheet.

Furnished in the following sizes:

Weight Painted

2.75 lb. per Sq. Yd.

3.00 lb. per Sq. Yd.

3.4 lb. per Sq. Yd.

Weight Galvanized

3.6 lb. per Sq. Yd.

Size of sheet: 24" x 96"—Packed 9 Sheets per Bundle—16 Sq. Yds.

**Stucco Binder**—An expanded metal binder particularly suited for stucco reinforcement. Furnished in sheets 4' x 8' packed 10 sheets per bundle, 35  $\frac{5}{8}$  Sq. Yds. and comes in 1.8 lb. and 3.6 lb. per Sq. Yd.

## METAL LATH

**$\frac{3}{8}$ " Rib Mesh Lath**—Imparts extra stiffness to the sheets to permit maximum spacing of supports.

Furnished in the following sizes:

Weight Painted—2.75 lb. per Sq. Yd.  
3.0 lb. per Sq. Yd.  
3.4 lb. per Sq. Yd.  
4.0 lb. per Sq. Yd.

Size of sheet: 24" x 96"—packed 9 sheets per Bundle—16 Sq. Yds.

**Arch Lath**—A metal lath for homes and a fireproof plaster saving lath.

Furnished in following sizes and weights:

Weight Painted—4.5 lb. per Sq. Yd. Weight Galvanized—5.2 lb. per Sq. Yd. Size of Sheet—27" x 96", packed 10 sheets per bundle—20 Sq. Yds.

**Cold Formed Channels**—Cold formed channels are used for solid or hollow plastered partitions, suspended ceilings and for all furring purposes where non-bearing supports are required.

Furnished in the following sizes and weights:

| Size             | Gauge | Wt. per M Ft.                |
|------------------|-------|------------------------------|
| $\frac{3}{4}$ "  | 16    | 276 lbs.                     |
| 1"               | 16    | 332 lbs. In 16-20 ft. Lgths. |
| $1\frac{1}{2}$ " | 16    | 442 lbs.                     |
| 2"               | 16    | 553 lbs.                     |

**Hot Rolled Channels**—A light hot rolled channel used for suspended ceilings, furring, etc.

Furnished in the following sizes and weights:

| Size             | Wt. per M Ft.                |
|------------------|------------------------------|
| $\frac{3}{4}$ "  | 300 lbs.                     |
| 1"               | 410 lbs. In 16-20 ft. Lgths. |
| $1\frac{1}{2}$ " | 650 lbs.                     |
| 2"               | 1260 lbs.                    |

**Corner Bead**—Furnished in Wing Type—Wt. 176 lbs. per M ft., Expanded Type—Wt. 230 lbs. per M ft., Bull Nose—Wt. 290 lbs. per M ft., Wide Apron—Wt. 372 lbs. per M ft.

**Picture Mold**—Hot galvanized—Wt. 225 lbs. per M ft.

**Base Screed**—Furnished in curved point—Wt. 175 lbs. per M ft. and plain—Wt. 146 lbs. per M ft.

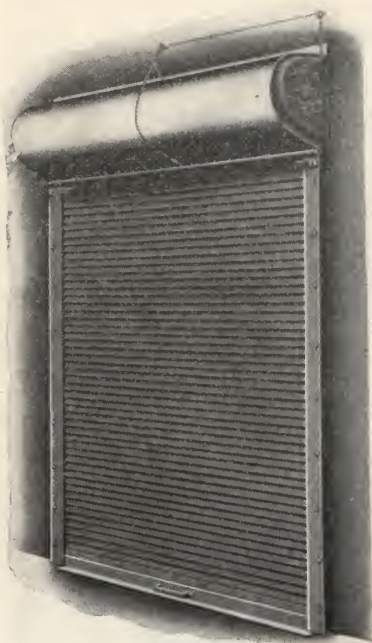
## SAFE-T-MESH



**Safe-T (Industrial Mesh)**—an ideal fabric for use in panel partitions, window guards, machinery guards, etc.

Fabric in all gauges and sizes, U Edging, Partition Bar and all other accessories in stock for immediate shipment.

Quotations on complete installations furnished on request.



## HOLLOW METAL WINDOWS "MECCO"

Double Hung, Counter-Balanced,  
Casement, Pivoted, Hinged.  
To pass Underwriters' Specifications.  
Descriptive catalogue and prices  
furnished on request.

## ROLLING STEEL DOORS "MECCO"

All Types  
Labeled — Non-Labeled

Descriptive catalogue and  
prices furnished on request.



## KALAMEIN DOORS AND TRIM "MECCO"

All Styles  
Underwriters' Labeled  
Commercial Non-Labeled

## TIN CLAD DOORS AND FRAMES "MECCO"

Labeled - Non-Labeled  
Descriptive catalogue and  
prices furnished on request.

## STEEL MORTAR BOXES

**Small Size—Price \$10.00 each, F. O. B. Erie, Pa.**

5'11½" long, 3'0" wide, 10" deep. Made from one sheet, corners  
double lapped and welded, angle reinforced top. Made from 16  
Ga. Steel Painted. Weight 84 lbs.

**Medium Size—Price \$16.00 each, F. O. B. Erie, Pa.**

7'2" long, 3'4" wide, 10" deep. Made from one sheet, corners  
double lapped and welded, angle reinforced top. Made from 14  
Ga. Steel Painted. Weight 158 lbs.

**Large Size—Price \$32.00 each, F. O. B. Erie, Pa.**

7'10" long, 5'0" wide, 12" deep. Welded joints, angle reinforced  
top. Made from 12 Ga. Steel Painted. Weight 294 lbs.



## STEEL SASH

Steel Windows and Doors for Factory  
and Office Buildings.

Windows { Pivoted  
Commercial Projected  
Architectural Projected  
Continuous  
Special

Doors—Steel

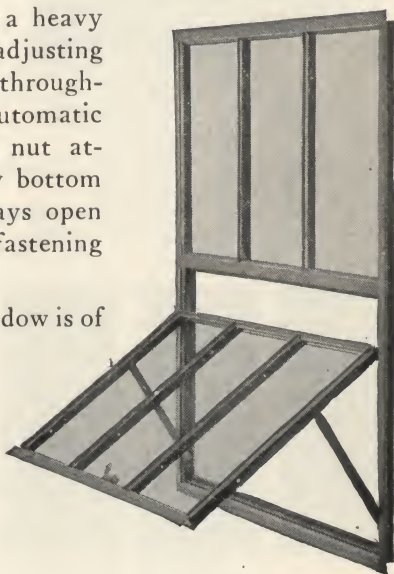
Complete data, prices, etc. furnished on request.

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## MANIFOLD WINDOWS

It has welded corners, a heavy middle bar, Bronze self-adjusting friction slide, Bronze pins throughout, strong steel arm, automatic cam lock, one bolt and nut attaches hardware, a heavy bottom bar, it opens out and stays open in any position without a fastening device.

This Manifold Steel window is of standard construction, it fits concrete block or brick, masonry can be built flush to frame without interfering with operation of ventilator, double metallic weathering all around ventilator.



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## SASH WEIGHTS

Metal Molded Cast Iron Sash Weights. True to weight and free from sand. Special attention is given to the forming of the eye so as not to leave fins and will not cut sash cord.

# MOSTLITE "PUTTYLESS" BASEMENT WINDOW

Can be furnished for putty glazing.

For 2 blocks with 4" sill (3 lts. 10 x 10)

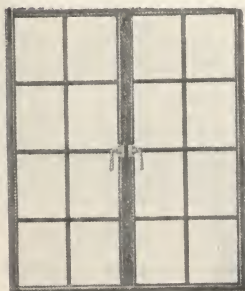
For 2 blocks with troweled sill (3 lts. 10 x 14)

For 3 blocks with 4" sill (3 lts. 10 x 18)

For 3 blocks with troweled sill (3 lts. 10 x 22)

Dimensions are over all.

|          |   |   |   |      |
|----------|---|---|---|------|
| ← 2'9" → |   |   |   |      |
| A        | 3 | 1 | 0 | 1'0" |
| A        | 3 | 1 | 4 | 1'4" |
| A        | 3 | 1 | 8 | 1'8" |
| A        | 3 | 2 | 2 | 2'0" |



## STEEL CASEMENTS

Light  
Intermediate } Casements for all purposes.  
Heavy

Descriptive catalogue and prices furnished on request.

## "METALCRAFT" CABINETS



Standard Recess Cabinet  
Standard Unit Cabinets  
Steel Cases and Equipment  
Built to Specification  
Monel Metal Equipment



Venetian Recess Cabinet  
Steel Hospital Cases  
Kitchen and Pantry Cabinets  
Steel Medicine Cabinets  
Steel Package Receivers

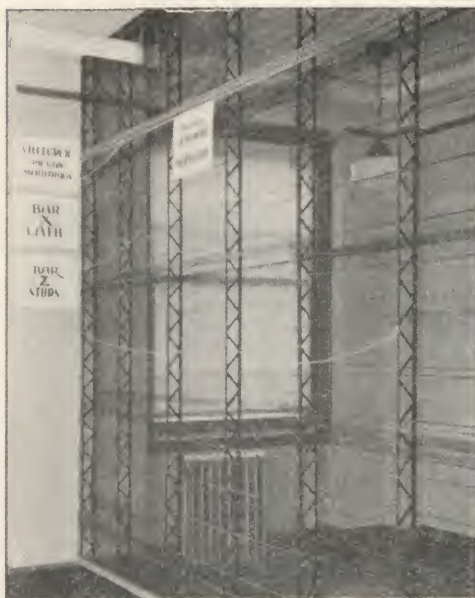
## TOILET AND SHOWER PARTITIONS "FERROMETAL"



Ferrometal partitions and doors are used for toilets, showers, dressing rooms, cubicals for hospitals and institutions, screens in vestibules to locker and wash rooms and in many other places in industrial plants, schools, railways, office buildings and private and public institutions.

A stock of standard sizes is carried at the factory at all times and ordinarily prompt shipments can be made.

Descriptive catalogue and prices furnished on request.



## BAR-Z HOLLOW PLASTERED PARTITIONS

### FEATURES

- Low Cost
- Strength
- Simplicity
- Adjustability
- Sound Insulation
- Ease of Construction
- Ease of Alterations

**The New Steel Stud Partition**—constructed of 16 Ga. Bar-Z-Studs of Trusslike design to which reinforced metal lath is applied on both sides. Simplicity of parts—light weight of individual units—method of assembling result in exceptional economy in construction and insure a uniform standard of workmanship. Descriptive catalogue and prices furnished on request.





For Private Offices

## MASTER WALLS

*by*  
*Hauserman*

### MOVABLE PARTITIONS FOR EVERY PLACE AND PURPOSE

Hauserman Masterwalls are Movable Steel Partitions for subdividing space in every kind of building, whether office, school, industrial, factory or hospital.

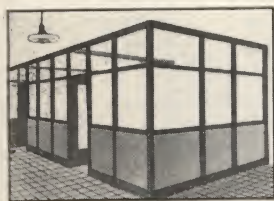
Hauserman Masterwalls are built in a variety of types for every need, complete with all accessories such as: doors, transoms, ventilators, railings, counters, window embrasures, radiator enclosures, grilles, wickets, hardware, etc.

They are the only type of interior walls that can be truly called permanent—which survive the inevitable floor lay-out changes. Money invested in built-up walls of masonry is a total loss with the first re-arrangement. All parts of Hauserman Masterwalls are salvageable. They outlive any building—permanent factory finishes practically eliminate maintenance. The more they are re-arranged, taken down, added to and re-erected the more dollars they earn.

Stock standard sizes ready for immediate delivery from factory. Descriptive catalogue and prices furnished on request.



General Offices



Industrial Uses

## OVERHEAD DOORS



The Ro-Way Overhead Garage Door represents the very latest in overhead door development. It is made in horizontal sections—4 sections high up to 8'6" high—5 sections high up to 10'6" high—6 sections high up to 12'6" high, etc. The Ro-Way Overhead Door is available in standard sizes for residential garages, special sizes for all sized commercial and industrial building openings.

They are not affected by either damp or dry weather. Very simple construction—fewer working parts—nothing to get out of order. No track jumping because of new retriever feature. Special patented "Seal-Tite" Mold reduces friction by 90%. Chain link hook causes door to stay up—no rebound. Every roller and sheave is full ball bearing.

For detailed description and quotation address Erie Concrete & Steel Supply Co., Ro-Way Overhead Door Distributors.

## COPPER STEEL BASEMENT COAL CHUTES AND PACKAGE RECEIVERS



Plain Door Chute



Glass Door Chute

### PRESSED STEEL

#### Plain Door

| Style | Wall<br>Opening | Body<br>Depth | Weight  |
|-------|-----------------|---------------|---------|
| 19    | 24" x 17"       | 8"            | 31 lbs. |
| 213   | 24" x 17"       | 12"           | 47 lbs. |

#### Wired Glass Door

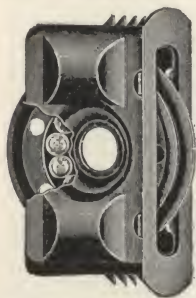
| Style | Wall<br>Opening | Body<br>Depth | Weight  |
|-------|-----------------|---------------|---------|
| 48    | 24" x 17"       | 8"            | 40 lbs. |
| 313   | 24" x 17"       | 12"           | 55 lbs. |

Descriptive catalogue and prices furnished on request.

## SASH PULLEYS

We are distributors of Grand Rapids All-Steel Sash Pulleys and can make prompt shipment on all sizes.

### No. 9 Ball-Bearing

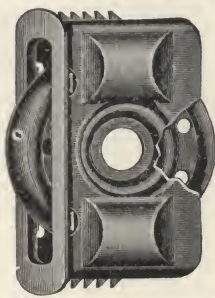


Comes in weather-proof, mahogany and Parker Rust Proof Finish.

Packed in 100 doz.  
Cases

2" Wheel  $1\frac{1}{16}$  x  $2\frac{13}{16}$ " Face

### No. 109 Cone-Bearing



2" Wheel  $1\frac{1}{16}$  x  $2\frac{13}{16}$ " Face

The above are a few of the popular types. We solicit your orders for all sizes and will quote prices on request.

## WELDED STEEL FACTORY BENCH LEGS

(Custom-built)

Complete prices, etc., furnished on request.

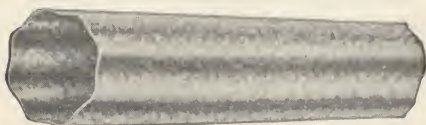
## EAVES TROUGH—CONDUCTOR PIPE— ACCESSORIES

### CONDUCTOR PIPE

#### Straight Lengths

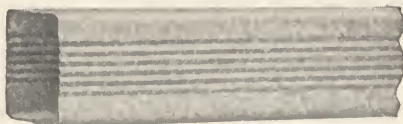
#### Gauge Stamped on every Piece

Furnished in Galvanized Open Hearth Steel and Galvanized Toncan Metal.



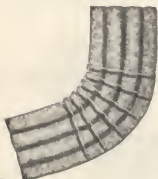
**Plain Round**—10 foot lengths. 28, 26, 24 Gauge; 2 in., 3 in., 4 in., 5 in., 6 in.

**Round Corrugated**—10 foot lengths. 28, 26, 24 Gauge; 2 in., 3 in., 4 in., 5 in., 6 in.



**Square Corrugated**—10 foot lengths. 28, 26, 24 Gauge; 2 in., 3 in., 4 in., 5 in.

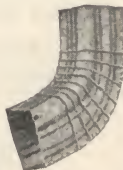
### CONDUCTOR ELBOWS AND SHOES



**Corrugated  
Round Elbows**



**Style A  
Square Elbows**



**Style B  
Square Elbows**

All Elbows and Shoes stamped with Gauge and Angle.

Furnished in Galvanized Open Hearth Steel and Galvanized Toncan Metal.

Plain Round, . . . . . 2, 3, 4, 5, 6 inch; Gauge 28, 26, 24.

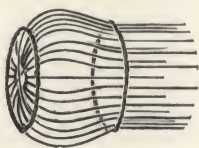
Round Corrugated, . . . 2, 3, 4, 5, 6 " " 28, 26, 24.

Square Corrugated, . . . 2, 3, 4, 5 " " 28, 26, 24.

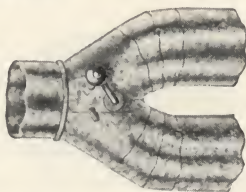
Elbows, No. 0, 30 degree; No. 1, 45 degree; No. 2, 60 degree; No. 3, 75 degree; No. 4, 90 degree. Always specify the number or angle desired; otherwise No. 3 will be furnished.



## EAVES TROUGH—CONDUCTOR PIPE—ACCESSORIES



Strainer



Cut-Off

### MALLEABLE CONDUCTOR HOOKS

2, 3, and 4 inch, packed 100 to a box; 5 inch and 6 inch, 50 to a box; neatly labeled.

Round Wired, Square Wired, Round Corrugated Hinged, Sickle, Plain Round Hinged. Always state if hooks are for wood or brick.

### GALVANIZED ROLL ROOFING, VALLEY AND GUTTER

Gauges—24 and lighter. Seams—Double locked.

### FORMED VALLEY

Furnished in Galvanized Open Hearth Steel and Galvanized Toncan Metal.

10 foot lengths. 10, 12, 14, 16, 18 and 20 inch Girth. Styles A & B. Gauges 29, 28, 26 and 24.

### EAVES TROUGH

Furnished in Galvanized Open Hearth Steel and Galvanized Toncan Metal.

3½, 4, 5, 6, 7, 8 inch. 28, 26, 24 Gauge, 10 foot lengths.

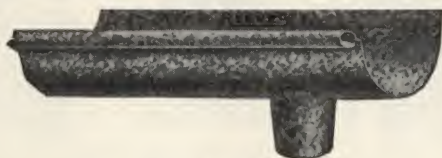


Single Bead—Slip Joint  
Made Right Hand or Left Hand.

Also furnished in Single Bead-Lap Joint, Double Bead-Slip Joint and Double Bead-Lap Joint.

### EAVES TROUGH END PIECE, WITH OUTLET

Furnished in single or double bead. In ordering, always state whether single or double bead or whether end cap is desired



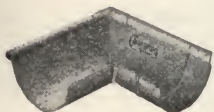
### SLIP-END CAP

Fits single or double bead trough. The best, most practical and efficient Slip End Cap made.



Descriptive catalogue and prices furnished on request.

## EAVES TROUGH—CONDUCTOR PIPE— ACCESSORIES

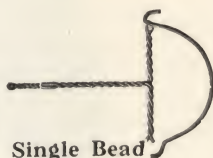


### EAVES TROUGH MITRES

Single or double bead. Lap or Slip Joints  
Right or left hand.  
Inner or outer corners.

### WIRE EAVES TROUGH HANGERS

Made of first grade galvanized wire. Carefully inspected before packing. Each style made single or double bead. Two wires in stem, three in cross bar and one in body.



Single Bead

### SHANKS AND CIRCLES (BLACK OR TINNED)

A wide variety of styles and sizes.

### BOX OR ROOF GUTTERS

Furnished in Galvanized Open Hearth Steel and Galvanized Toncan Metal. 10 foot lengths. Styles A, B, C, D, E, F, G, H, J and K in 28, 26 and 24 gauges.

### TIN ROLL VALLEY

Furnished in standard widths and weights.

### V-RIDGE CAP

Furnished in Galvanized Open Hearth Steel and Galvanized Toncan Metal.

10 ft. lengths. Girth 6 in., 7 in., 8 in. and 10 in.

Style A—Plain      Style B—With Special Nailing Flange.

### PLAIN RIDGE ROLL

Furnished in Galvanized Open Hearth Steel and Galvanized Toncan Metal.

Style A—Plain.      Style B—With Special Nailing Flange.

Diameter of Roll—1½ in., 2 in., 2½ in. and 3 in.

Girth—7 in., 8 in., 10 in., 12 in. and 14 in.

Gauge—24, 26, 28, 29

### CORRUGATED RIDGE ROLL

Furnished in Galvanized Open Hearth Steel and Galvanized Toncan Metal. In 10 foot lengths in 20 gauge and lighter with 1¼" or 2½" corrugations.

### BRIGHT COKE, CHARCOAL AND TIN ROOFING SHEETS

Furnished in standard widths and weights.

Descriptive catalogue and prices furnished on request.

**STOVE PIPE AND FITTINGS****NESTED STOVE PIPE**

With edges turned and locks formed.

Packed in cartons of 25 joints.

Full length, 24 inches.

In standard gauges and sizes.

---

**CORRUGATED STOVE PIPE ELBOWS****ADJUSTABLE STOVE PIPE ELBOWS****TEE JOINTS**

In standard gauges and sizes.

---

**FURNACE PIPE AND FITTINGS****GALVANIZED SMOKE PIPE****Nested**

With edges turned and locks formed.

Packed in cartons of 25 joints.

Full length 24 inches.

In standard gauges and sizes.

---

**GALVANIZED SMOKE PIPE ELBOWS****GALVANIZED SMOKE PIPE ANGLES****TEE JOINTS****Regular or Adjustable**

In standard gauges and sizes.

---

**ROUND TIN HOT AIR PIPE****Nested**

With edges turned and locks formed.

24 inch joints.

In standard gauges and sizes.

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**ADJUSTABLE TIN ELBOWS****ADJUSTABLE TIN ANGLES**

In standard gauges and sizes.

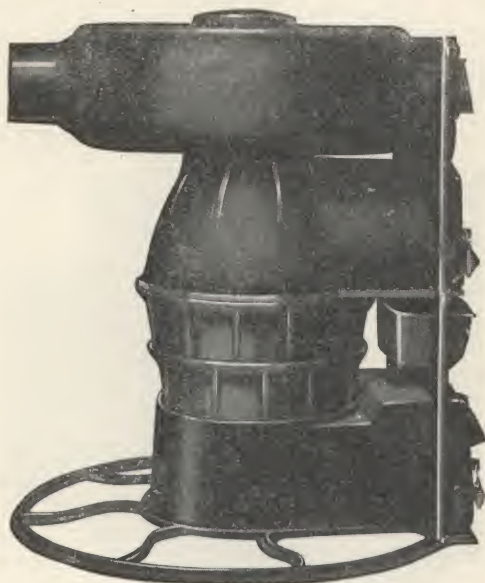
In addition to the above items, we carry a complete supply of:

Boots  
Heads  
Wall Pipe  
Floor Pans  
Floor Registers  
Furnace Cement

Solder  
Soldering Irons  
Self-Tapping Sheet Metal Screws  
Tinnerns Paint  
Tinnerns Rivets  
Air Filters



## ECONOMY BLUE FRONT FURNACES



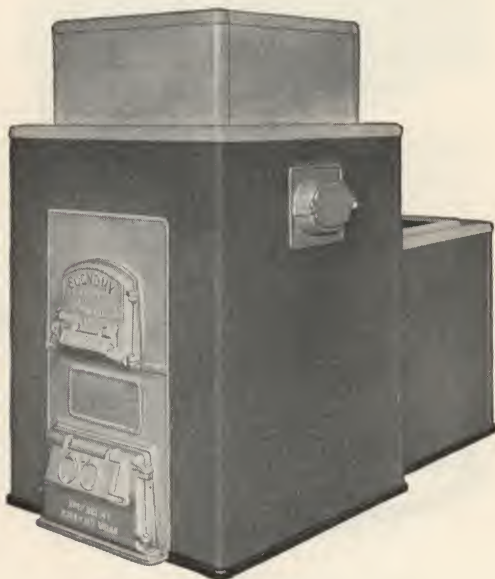
| Number .....                 | 36182 | 40202 | 44222 | 48242 | 52262 | 5228 |
|------------------------------|-------|-------|-------|-------|-------|------|
| Heat'g Surface, Sq. In.      | 5064  | 5867  | 6573  | 7354  | 8293  | 8388 |
| Grate Area .....             | 156   | 204   | 258   | 318   | 384   | 452  |
| Official Rating, Sq. In..... | 341   | 420   | 502   | 591   | 694   | 768  |
| Diameter of Firepot.....     | 18"   | 20"   | 22"   | 24"   | 26"   | 28"  |
| Diameter of Casings .....    | 36"   | 40"   | 44"   | 48"   | 52"   | 52"  |

No other furnace offers you *all* of the following features:

1. One-piece Ribbed Feed Section with Covered Cup Joint
2. Clean-Out and Smoke Pipe Collar through Casing
3. Cold Drop Wire Handles that Never Heat
4. Every Furnace Mounted at Factory
5. An "Official" Standard Code Rating
6. One-piece Bottom and Base Ring.
7. Ribbed Two-piece Firepots
8. Surface Ground Doors.
9. One-piece Radiator
10. Slip Over Front

All sizes carried in stock at Erie. Complete catalog and prices sent upon request.

## SQUARE CASED GRAVITY AND AIR CONDITIONING HEATERS



### AIR CONDITIONING UNITS

| Number .....           | AC-202 | AC-222 | AC-242  | AC-262  | AC-28   |
|------------------------|--------|--------|---------|---------|---------|
| B.t.u. Capacity:       |        |        |         |         |         |
| At 7½ lb. rate.....    | 71,500 | 88,880 | 109,730 | 132,580 | 155,900 |
| At 6 lb. rate.....     | 57,500 | 71,500 | 88,500  | 107,000 | 125,500 |
| Diameter Firepot ..... | 20"    | 22"    | 24"     | 26"     | 28"     |

### GRAVITY FURNACES

| Number .....             | 202-S | 222-S | 242-S | 262-S | 28-S |
|--------------------------|-------|-------|-------|-------|------|
| Official Rating, Sq. In. | 402   | 502   | 591   | 694   | 762  |
| Diameter Firepot ....    | 20"   | 22"   | 24"   | 26"   | 28"  |

These Units and Furnaces are equipped with beautiful two-toned green enameled jackets—made of 20-gauge automobile body steel.

The castings of these heaters are identical with those of the Economy Blue Front Furnace described on preceding page.

Catalogs and prices sent upon request.

## WAREHOUSE — FORGE SHOP — STRUCTURAL SHOP EQUIPMENT

**Plate Shear**—Gate shear capacity 54" x  $\frac{1}{2}$ " plate per stroke. Will split plate continuous 48" x  $\frac{1}{2}$ " any length.

**Flat Bar Shear**—Will shear bars at one stroke up to and including 12" wide x  $1\frac{1}{2}$ " thick.

**Round Bar Shear**—Capacity up to and including 2" round at one stroke. Heavier than 2" round flame cut or saw cut.

**Combination Angle, Bar and Plate Shear**—Will shear plates  $\frac{5}{8}$ " continuously any length any width. Will cut and miter angles and tees up to  $3 \times 3 \times \frac{1}{2}$ ". Will cut rounds up to 2". Will cut bars up to  $8 \times \frac{1}{2}$ ".

**High Speed Saw**—Friction saw equipped for cutting beams 24" and lighter and all other structural sections.

**Punches**—We have 4 punching machines in operation and can punch holes up to and including 6" in diameter thru 1" thick material.

**Riveting Machines**—We are equipped with pneumatic and compression riveters and can handle any class of work in this line.

**Steam Hammer**—We are equipped with an 800 lb. steam hammer and can do any light forging work. We are also equipped with a light trip hammer and can handle blacksmith work of any description.

**Bull Dozer**—We are equipped with an 18 ton Bulldozer and forming machine with a capacity of bending 4" square bars and can handle your work in this line.

**Angle Shears**—We are equipped with two angle shears with a capacity up to and including  $6 \times 6 \times \frac{1}{2}$ ". Larger sizes cut with friction saw or flame cut.

**Forging Machine**—We are equipped with an upsetting and forging machine with a capacity up to and including  $1\frac{1}{2}$ " round. We are able to make bolts from  $\frac{1}{4}$ " to  $1\frac{1}{2}$ " in hexagon or square head and in any length desired.

**Bolt Threader**—We are equipped with one 3 head bolt threading machine with a capacity up to  $1\frac{1}{2}$ " bolts and a single head threading machine with a capacity up to and including 4" diameter. We are able to handle truss rods and bolts up to and including the above sizes.

**Pipe Threader**—We are equipped with one 6" Pipe Threading Machine with a capacity up to and including 6" and can handle your pipe cutting and threading up to this size.

**Angle Bending Roll**—We are equipped to roll angles up to and including  $6 \times 6 \times \frac{3}{4}$ ".



## WAREHOUSE — FORGE SHOP — STRUCTURAL SHOP EQUIPMENT

**Bending Rolls**—We are equipped with a plate bending roll with a capacity of bending plates up to 30" wide and as heavy as 2½" thick. We are able to roll on this machine special plates, rings, etc. Also a plate bending roll with a capacity to roll plates up to ½" thick by 10 ft. wide.

**Bending Press**—We are equipped with a pneumatic bending and forming press with a capacity of ½" plate, 108" wide.

**Bending Brake**—We have added a brake capable of bending sheets and plates to right angles up to ¼" thick by 10 feet long.

**Reinforcing Bar Bender**—The very latest in bar bending machines capable of doing any reinforcing bar bending. Stirrups, spirals, etc.

**Electric Yard Crane**—We are equipped with one 10 ton 60 foot span electric stock yard crane for handling our structural shapes, plates, etc. We are also equipped with 4 lighter electric traveling cranes in our warehouse and fabricating shop which insures fast economical handling of your orders.

**Electric Welding Machines**—We are equipped with heavy duty electric welding machines and can take care of your requirements in this line.

**Machine Shop Equipment**—We have a machine shop equipped with lathes, shapers, planers, drill presses, etc. and can take care of machine work of the lighter class.

**Milling Machine**—We are equipped with one large motor driven 30" diameter rotary milling machine for milling beams, columns, etc.

We solicit your orders for fabricated work, forgings and material which we can handle with the above equipment.

Prompt service and right prices guaranteed.

## BILLING CLASSIFICATION

The following indicates practice in billing material from warehouse:

**Billed at Estimated Weight**—Beams, H-Beams, Angles 3 inches and over on one or both legs x ¼ inch and over, Channels 3 inches and over, Tees 3 inches and over, Zees and U. S. Piling.

**Billed at Scale Weight**—Angles under 3 inches x ¼ inch, channels under 3 inches, Tees under 3 inches, Bars of all descriptions, Plates, Rails and Fabricated material.

**Minimum Charge**—50c on any Invoice.

# COLD FINISHED STEEL BARS

## CARD OF EXTRAS

Extras for Size Per 100 pounds Net

### ROUNDS

|                   |        |                    |         |
|-------------------|--------|--------------------|---------|
| 1/8" to 5/32"     | \$1.30 | 29/16" to 3"       | \$0.80  |
| 3/16" to 7/32"    | 1.10   | 31/16" to 33/8"    | .90     |
| 1/4"              | 1.00   | 37/16" to 33/4"    | 1.00    |
| 5/16"             | .90    | 313/16" to 41/8"   | 1.15    |
| 3/8" to 7/16"     | .85    | 43/16" to 47/16"   | 1.25    |
| 1/2" to 9/16"     | .80    | 41/2" to 47/8"     | 1.35    |
| 5/8"              | .70    | 415/16" to 53/8"   | 1.45    |
| 11/16" to 3/4"    | .60    | 57/16" to 57/8"    | 1.95    |
| 13/16" to 17/16"  | .55    | 515/16" to 6" inc. | 2.40    |
| 1 1/2" to 2"      | .60    | Sizes over 6"      | Special |
| 2 1/16" to 2 1/2" | .65    |                    |         |

### SQUARES

|                |        |                  |         |
|----------------|--------|------------------|---------|
| 1/8" to 5/32"  | \$5.00 | 1/2" to 5/8"     | \$ 1.30 |
| 3/16" to 7/32" | 4.00   | 11/16" to 15/16" | 1.05    |
| 1/4" to 5/16"  | 2.50   | 13/8" to 2"      | 1.25    |
| 3/8" to 7/16"  | 1.75   | 21/16" to 4"     | 2.00    |

### HEXAGONS

|                   |        |                     |        |
|-------------------|--------|---------------------|--------|
| 1/8" to 5/32"     | \$5.00 | 1" to 1 1/16"       | \$ .50 |
| 3/16" to 7/32"    | 4.00   | 1 1/8" to 1 1/4"    | .45    |
| 1/4" to 5/16"     | 2.50   | 1 5/16" to 1 7/16"  | .50    |
| 3/8"              | 1.75   | 1 1/2" to 1 7/8"    | .60    |
| 7/16"             | 1.25   | 1 15/16" to 2 3/16" | .75    |
| 1 1/2"            | .90    | 2 1/4" to 2 3/4"    | 1.00   |
| 9/16"             | .80    | 2 13/16" to 3"      | 1.50   |
| 5/8"              | .70    | 3 1/16" to 3 1/2"   | 3.00   |
| 11/16" to 1 3/16" | .60    | 3 9/16" to 4"       | 4.00   |
| 7/8" to 1 5/16"   | .55    |                     |        |

### FLATS

| Thickness          | WIDTH  |               |                 |            |                   |               |                    |
|--------------------|--------|---------------|-----------------|------------|-------------------|---------------|--------------------|
|                    | 1/4"   | 5/16" to 1/2" | 9/16" to 23/32" | 3/4" to 1" | 1 1/16" to 1 1/2" | 1 9/16" to 3" | Over 3" to 6" Inc. |
| 1/8" and 5/32"     | \$8.50 | \$6.50        | \$5.50          | \$4.50     | \$3.50            | \$3.00        | \$3.50             |
| 3/16" to 5/16"     | 7.75   | 5.75          | 5.25            | 3.75       | 2.75              | 1.75          | 3.00               |
| 3/8" to 7/16"      |        | 4.75          | 4.25            | 2.75       | 2.75              | 1.75          | 2.50               |
| 1/2" to 9/16"      |        |               | 3.25            | 1.75       | 1.75              | 1.50          | 2.50               |
| 5/8" to 1 1/16"    |        |               | 2.75            | 1.50       | 1.50              | 1.50          | 2.50               |
| 3/4" to 1 5/16"    |        |               |                 | 1.50       | 1.50              | 1.50          | 2.50               |
| 1" to 1 7/16"      |        |               |                 |            | 1.50              | 1.50          | 2.50               |
| 1 1/2" to 1 11/16" |        |               |                 |            |                   | 1.50          | 2.50               |
| 1 3/4" to 1 15/16" |        |               |                 |            |                   | 1.50          | 2.50               |
| 2" to 2 15/16"     |        |               |                 |            |                   | 1.50          | 2.50               |

The smallest dimension is the thickness.

Intermediate sizes (all shapes) subject to next higher extra.

Accuracy, boxing and burlapping, chemical, cutting, quantity, odd size, ground & polished and turned & ground extras furnished on request.

## CUTTING EXTRAS

## STRUCTURAL SHAPE CUTTING

Per 100 Lb. Charge

Including Bar Shapes Weighing 2.44 Lbs. per ft. and over

|                        | 5 ft.<br>and<br>Longer | Under<br>5 ft.<br>to 3 ft. | Under<br>3 ft.<br>to 2 ft. | Under<br>2 ft.<br>to 1 ft. | Under<br>1 ft.<br>to 6" | Under<br>6" |
|------------------------|------------------------|----------------------------|----------------------------|----------------------------|-------------------------|-------------|
| All Structural Shapes. | \$0.00                 | \$0.10                     | \$0.25                     | \$0.50                     | \$1.55                  | \$3.00      |

All charged on net weight basis.

## RAILS

|                                | 2 ft.<br>and<br>Over | 1 ft.<br>to<br>2 ft. | 6"<br>to<br>1 ft. | 4"<br>to<br>6" | 2"<br>to<br>4" |
|--------------------------------|----------------------|----------------------|-------------------|----------------|----------------|
| Tee Rails, all sizes . . . . . | \$0.25               | \$0.40               | \$0.85            | \$1.40         | \$2.30         |

Rails will be charged on gross weight.

## BAR SIZE ANGLES

Shearing

Minimum Cutting Charge—35 Cents per Section

|                             | Over<br>10 ft.               | Over<br>5 ft.<br>to 10 ft. | Over<br>3 ft.<br>to 5 ft. | Over<br>1 ft.<br>to 3 ft. | Over<br>6"<br>to 12" | 6" and<br>under |
|-----------------------------|------------------------------|----------------------------|---------------------------|---------------------------|----------------------|-----------------|
| Weight up to .80 lbs..      | \$0.80                       | \$1.25                     | \$1.50                    | \$2.30                    | \$4.00               | \$7.00          |
| Over .80 to 1.80 lbs. .     | .60                          | .70                        | .85                       | 1.10                      | 3.50                 | 6.00            |
| Over 1.80 under 2.44 lbs.   | .45                          | .55                        | .70                       | .90                       | 3.00                 | 5.00            |
| 2.44 lbs. and over. . . . . | Use structural cutting list. |                            |                           |                           |                      |                 |

Angles 1 x 1 x 1/8" and larger charged on net weight.

Angles 7/8 x 7/8 x 1/8" and smaller charged on gross weight.

## BAR SIZE ANGLES, CHANNELS,

TEES AND ZEES

Hack Saw Cutting

Minimum Cutting Charge—35 Cents per Section

|                             | Over<br>10 ft. | Over<br>5 ft.<br>to 10 ft. | Over<br>3 ft.<br>to 5 ft. | Over<br>2 ft.<br>to 3 ft. | Over<br>1 ft.<br>to 2 ft. | Over<br>6"<br>to 1 ft. | Over<br>3"<br>to 6" | 3"<br>and<br>Under |
|-----------------------------|----------------|----------------------------|---------------------------|---------------------------|---------------------------|------------------------|---------------------|--------------------|
| Weight up to .80 lbs..      | \$0.90         | \$1.50                     | \$1.70                    | \$2.50                    | \$3.50                    | \$5.50                 | \$9.00              | \$15.00            |
| Over .80 to 1.80 lbs. . . . | .65            | .90                        | 1.20                      | 2.00                      | 3.00                      | 4.50                   | 8.00                | 13.00              |
| Over 1.80 lbs. . . . .      | .50            | .75                        | 1.00                      | 1.75                      | 2.50                      | 4.00                   | 7.00                | 11.50              |

Tees 2 x 2 and larger charged on net weight.

Tees 2 x 1 1/2 and under charged on gross weight.

Channels and Zees charged on gross weight.

## BANDS AND HOOPS

Shearing

No. 10 to 16 Gauge

Lighter than No. 16 Gauge—Extras on Application

Minimum Cutting Charge—35 Cents per Section

|                          | Over<br>8 ft. | Over<br>5 ft.<br>to 8 ft. | Over<br>3 ft.<br>to 5 ft. | 1 ft.<br>to 3 ft. | Under<br>12" |
|--------------------------|---------------|---------------------------|---------------------------|-------------------|--------------|
| 1" wide and under. . . . | \$0.80        | \$0.90                    | \$1.25                    | \$1.70            | \$6.50       |
| 1 1/8" to 3" . . . . .   | .45           | .55                       | .70                       | 1.00              | 3.75         |
| 3 1/4" to 10" . . . . .  | .30           | .40                       | .60                       | .75               | 2.50         |

All charged on gross weight.



# CUTTING EXTRAS

(Continued)

## SHEARING EXTRAS—HOT ROLLED BARS

Per 100 Lb. Charge

Minimum Cutting Charge—35 Cents per Section

ROUNDS, SQUARES AND HEXAGONS

| Diameter          | CUT TO LENGTH           |                            |                           |                           |                    |             |
|-------------------|-------------------------|----------------------------|---------------------------|---------------------------|--------------------|-------------|
|                   | Over<br>10 ft.          | Over<br>5 ft.<br>to 10 ft. | Over<br>3 ft.<br>to 5 ft. | Over<br>1 ft.<br>to 3 ft. | 6" to<br>12" Incl. | Under<br>6" |
| Up to 1/2"        | \$0.50                  | \$0.60                     | \$0.75                    | \$0.95                    | \$3.50             | \$7.00      |
| 9/16" to 1"       | .30                     | .30                        | .40                       | .60                       | 2.10               | 4.00        |
| 1 1/16" to 1 1/2" | .20                     | .25                        | .30                       | .55                       | 1.10               | 2.20        |
| 1 9/16" to 2"     | .15                     | .20                        | .25                       | .45                       | 1.00               | 2.00        |
| Over 2"           | See saw cutting extras. |                            |                           |                           |                    |             |

All rounds charged on net weight.

Hexagons charged on gross weight.

All squares 1/4" and heavier charged on net weight.

## FLATS

Minimum Cutting Charge—35 Cents per Section

Thickness 3/16" to 1/2"

| Width            | CUT TO LENGTH  |                            |                           |                           |                    |             |
|------------------|----------------|----------------------------|---------------------------|---------------------------|--------------------|-------------|
|                  | Over<br>10 ft. | Over<br>5 ft.<br>to 10 ft. | Over<br>3 ft.<br>to 5 ft. | Over<br>1 ft.<br>to 3 ft. | 6" to<br>12" Incl. | Under<br>6" |
| 3/8" to 1"       | \$0.40         | \$0.50                     | \$0.60                    | \$1.00                    | \$3.00             | \$6.00      |
| 1 1/8" to 1 3/4" | .35            | .40                        | .50                       | .85                       | 2.40               | 4.80        |
| 2" to 3"         | .30            | .35                        | .45                       | .70                       | 2.10               | 4.20        |
| Over 3" to 6"    | .25            | .30                        | .35                       | .55                       | 1.80               | 3.60        |

Thickness 5/8 to 1 5/16"

| Width             |     |     |     |     |      |      |
|-------------------|-----|-----|-----|-----|------|------|
| 5/8" to 7/8"      | .35 | .40 | .50 | .85 | 2.40 | 4.80 |
| 1 to 1 3/8"       | .30 | .35 | .45 | .70 | 2.10 | 4.20 |
| 1 1/2 to 2 3/4"   | .25 | .30 | .35 | .55 | 1.80 | 3.60 |
| Over 2 3/4" to 6" | .20 | .25 | .30 | .40 | 1.20 | 2.40 |

Thickness 1 to 1 1/2"

| Width           |     |     |     |     |      |      |
|-----------------|-----|-----|-----|-----|------|------|
| 1 1/8 to 1 1/2" | .25 | .30 | .35 | .55 | 1.50 | 3.00 |
| 1 5/8 to 2 1/2" | .20 | .25 | .30 | .40 | 1.20 | 2.40 |
| 2 9/16" to 6"   | .15 | .20 | .25 | .35 | .90  | 1.80 |

Flats over 1 1/2" thick—See saw cutting extra.

All ovals, half ovals, half rounds, screen bars, bevel edge and spring steel charged on gross weight, using Flat Bar shearing schedule.

All flats 1/4" and heavier charged on net weight.

All flats 3/16" and lighter, charged on gross weight.

## CUTTING EXTRAS

(Continued)

## SAW CUTTING EXTRAS—PER 100 LBS.

## BARS

According to Length of Pieces Cut.  
Minimum Charge 35 Cents per Section

## ROUNDS

| Size of Round               | Over<br>6'0"    | Over<br>3'0"<br>to<br>6'0"  | Over<br>2'0"<br>to<br>3'0" | Over<br>1'0"<br>to<br>2'0" | Over<br>6"<br>to<br>1'0"   | Over<br>3"<br>to<br>6"   | 3"<br>and<br>under     |                    |
|-----------------------------|-----------------|-----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|------------------------|--------------------|
| 1/8" to 3/8" incl.....      | \$1.10          | \$1.50                      | \$2.50                     | \$3.00                     | \$5.30                     | \$12.00                  | \$20.00                |                    |
| Over 3/8" to 1/2" incl..... | .75             | 1.00                        | 1.60                       | 2.00                       | 3.50                       | 8.00                     | 15.00                  |                    |
|                             | Over<br>8'0"    | Over<br>5'0"<br>to<br>8'0"  | Over<br>3'0"<br>to<br>5'0" | Over<br>2'0"<br>to<br>3'0" | Over<br>1'0"<br>to<br>2'0" | Over<br>6"<br>to<br>1'0" | Over<br>3"<br>to<br>6" | 3"<br>and<br>under |
| Over 1/2" to 1" incl....    | \$0.45          | \$0.65                      | \$0.95                     | \$1.35                     | \$1.80                     | \$3.25                   | \$7.00                 | \$13.00            |
|                             | Over<br>10'0"   | Over<br>5'0"<br>to<br>10'0" | Over<br>3'0"<br>to<br>5'0" | Over<br>2'0"<br>to<br>3'0" | Over<br>1'0"<br>to<br>2'0" | Over<br>6"<br>to<br>1'0" | Over<br>3"<br>to<br>6" | 3"<br>and<br>under |
| Over 1" to 2" incl.....     | \$0.40          | \$0.60                      | \$0.90                     | \$1.10                     | \$1.40                     | \$2.60                   | \$5.50                 | \$10.00            |
| Over 2" to 4" incl.....     | .35             | .50                         | .80                        | .95                        | 1.25                       | 2.25                     | 5.00                   | 9.00               |
| Over 4" to 6 1/2" incl...   | .30             | .40                         | .65                        | .90                        | 1.00                       | 2.00                     | 4.50                   | 8.00               |
| Over 6 1/2" to 7" incl...   | .25             | .35                         | .50                        | .80                        | .90                        | 1.80                     | 4.00                   | 7.50               |
| Over 7" to 8" incl.....     | .20             | .30                         | .45                        | .70                        | .80                        | 1.50                     | 3.50                   | 6.20               |
| Over 8" .....               | On Application. |                             |                            |                            |                            |                          |                        |                    |

## SQUARES AND HEXAGONS

| Size of Square<br>or Hexagon | Over<br>6'0" | Over<br>4'0"<br>to<br>6'0" | Over<br>2'0"<br>to<br>4'0" | Over<br>1'0"<br>to<br>2'0" | Over<br>6"<br>to<br>1'0" | Over<br>3"<br>to<br>6" | 3"<br>and<br>under |
|------------------------------|--------------|----------------------------|----------------------------|----------------------------|--------------------------|------------------------|--------------------|
| 1/8" to 3/8" incl.....       | \$1.00       | \$1.50                     | \$2.00                     | \$3.25                     | \$5.90                   | \$11.50                | \$20.00            |
| Over 3/8" to 1/2" incl.....  | .80          | 1.20                       | 1.80                       | 2.25                       | 4.25                     | 9.00                   | 16.00              |
| Over 1/2" to 1" incl.....    | .50          | .80                        | 1.40                       | 2.00                       | 3.50                     | 8.00                   | 14.00              |
|                              | Over<br>8'0" | Over<br>4'0"<br>to<br>8'0" | Over<br>2'0"<br>to<br>4'0" | Over<br>1'0"<br>to<br>2'0" | Over<br>6"<br>to<br>1'0" | Over<br>3"<br>to<br>6" | 3"<br>and<br>under |
| Over 1" to 2" incl.....      | \$0.45       | \$0.75                     | \$1.20                     | \$1.60                     | \$3.00                   | \$6.50                 | \$12.00            |
| Over 2" to 3" incl.....      | .40          | .70                        | 1.10                       | 1.40                       | 2.70                     | 6.00                   | 10.00              |
| Over 3" to 4" incl.....      | .35          | .60                        | .90                        | 1.25                       | 2.40                     | 5.00                   | 9.00               |
| Over 4" to 5" incl.....      | .30          | .40                        | .65                        | 1.00                       | 2.00                     | 4.50                   | 8.00               |

# CUTTING EXTRAS

(Continued)

SAW CUTTING EXTRAS—PER 100 LBS.

## BARS

According to Length of Pieces Cut.  
Minimum Charge 35 Cents per Section.

## FLATS

|  | Over<br>6'0" | Over<br>4'0"<br>to<br>6'0" | Over<br>2'0"<br>to<br>4'0" | Over<br>1'0"<br>to<br>2'0" | Over<br>6"<br>to<br>1'0" | Over<br>3"<br>to<br>6" | 3"<br>and<br>under |
|--|--------------|----------------------------|----------------------------|----------------------------|--------------------------|------------------------|--------------------|
|--|--------------|----------------------------|----------------------------|----------------------------|--------------------------|------------------------|--------------------|

### 1/8" to 1/4" Thickness

|                        |        |        |        |        |        |        |         |
|------------------------|--------|--------|--------|--------|--------|--------|---------|
| Width:                 |        |        |        |        |        |        |         |
| 1/4" to 1" incl.....   | \$0.75 | \$1.00 | \$1.25 | \$2.20 | \$4.00 | \$8.00 | \$15.00 |
| Over 1" to 2" incl.... | .65    | .90    | 1.05   | 2.00   | 3.75   | 7.00   | 13.75   |
| Over 2" to 3" incl.... | .60    | .80    | .95    | 1.80   | 3.20   | 6.00   | 11.40   |
| Over 3" to 6" incl.... | .50    | .70    | .90    | 1.60   | 3.00   | 5.50   | 10.50   |

### Over 1/4" to 1/2" Thickness

|                        |     |     |      |      |      |      |       |
|------------------------|-----|-----|------|------|------|------|-------|
| Width:                 |     |     |      |      |      |      |       |
| 3/8" to 1" incl.....   | .60 | .90 | 1.15 | 2.00 | 3.75 | 7.50 | 14.00 |
| Over 1" to 2" incl.... | .55 | .75 | 1.00 | 1.80 | 3.50 | 6.50 | 12.50 |
| Over 2" to 3" incl.... | .50 | .65 | .90  | 1.60 | 3.00 | 5.50 | 10.50 |
| Over 3" to 6" incl.... | .45 | .60 | .75  | 1.40 | 2.50 | 4.75 | 9.00  |

### Over 1/2" to 1" Thickness

|                             |     |     |     |      |      |      |       |
|-----------------------------|-----|-----|-----|------|------|------|-------|
| Width:                      |     |     |     |      |      |      |       |
| 3/4" to 1 1/2" incl.....    | .50 | .65 | .90 | 1.60 | 3.00 | 5.50 | 10.50 |
| Over 1 1/2" to 2 1/2" incl. | .45 | .60 | .80 | 1.45 | 2.50 | 4.80 | 9.50  |
| Over 2 1/2" to 4" incl.     | .40 | .55 | .75 | 1.35 | 2.35 | 4.60 | 9.00  |
| Over 4" to 6" incl.         | .35 | .50 | .70 | 1.25 | 2.25 | 4.40 | 8.50  |

### Over 1" to 1 1/2" Thickness

|                        |     |     |     |      |      |      |      |
|------------------------|-----|-----|-----|------|------|------|------|
| Width:                 |     |     |     |      |      |      |      |
| 1 1/4" to 2" incl..... | .45 | .60 | .75 | 1.35 | 2.35 | 4.60 | 9.00 |
| Over 2" to 4" incl.    | .40 | .55 | .70 | 1.25 | 2.25 | 4.40 | 8.50 |
| Over 4" to 6" incl.    | .35 | .50 | .65 | 1.10 | 2.10 | 4.00 | 7.50 |

### Over 1 1/2" to 2" Thickness

|                         |     |     |     |      |      |      |      |
|-------------------------|-----|-----|-----|------|------|------|------|
| Width:                  |     |     |     |      |      |      |      |
| 2" to 2 1/2" incl.....  | .40 | .55 | .70 | 1.25 | 2.25 | 4.40 | 8.50 |
| Over 2 1/2" to 4" incl. | .35 | .50 | .65 | 1.10 | 2.10 | 4.25 | 8.00 |
| Over 4" to 6" incl.     | .30 | .45 | .60 | 1.05 | 2.00 | 4.00 | 7.50 |

### Over 2" to 3" Thickness

|                        |     |     |     |      |      |      |      |
|------------------------|-----|-----|-----|------|------|------|------|
| Width:                 |     |     |     |      |      |      |      |
| 3" to 4" incl.....     | .35 | .50 | .65 | 1.10 | 2.10 | 4.25 | 7.75 |
| Over 4" to 6" incl.... | .30 | .45 | .60 | 1.00 | 1.95 | 3.85 | 7.45 |



**CUTTING EXTRAS**

(Continued)

**PLATE SHEARING** **$\frac{3}{16}$ " to 1" Thick Inclusive****Including Class A, Flange, Firebox, High Carbon, U. M., and Diamond Pattern Plates—Per 100 Lb. Charge****TO LENGTH ONLY**

| Thickness                        | LENGTH                      |                            |                            |                            |                             |
|----------------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
|                                  | 5 ft.<br>and<br>Longer      | Under<br>5 ft.<br>to 3 ft. | Under<br>3 ft.<br>to 2 ft. | Under<br>2 ft.<br>to 1 ft. | Under<br>1 ft. &<br>over 6" |
| $\frac{3}{16}$ " to 1" incl..... | \$0.00                      | \$0.10                     | \$0.25                     | \$0.50                     | \$1.55                      |
| Over 1".....                     | See Plate Burning Schedule. |                            |                            |                            |                             |

**TO WIDTHS OVER 6" AND TO LENGTH**

For Shearing to other than stock widths over 6" and to length the following extras apply:

| Thickness  | LENGTH                      |                            |                            |                            |                             |
|--|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
|  | 5 ft.<br>and<br>Longer      | Under<br>5 ft.<br>to 3 ft. | Under<br>3 ft.<br>to 2 ft. | Under<br>2 ft.<br>to 1 ft. | Under<br>1 ft. &<br>over 6" |
| $\frac{3}{16}$ " to $\frac{5}{16}$ " incl.....     | \$0.30                      | \$0.40                     | \$0.55                     | \$0.80                     | \$1.85                      |
| Over $\frac{5}{16}$ " to $\frac{1}{2}$ " incl..... | .25                         | .35                        | .50                        | .75                        | 1.80                        |
| Over $\frac{1}{2}$ " to 1" incl.....               | .20                         | .30                        | .45                        | .70                        | 1.75                        |
| Over 1".....                                       | See Plate Burning Schedule. |                            |                            |                            |                             |

Charged on gross weight of nearest stock width.

Shearing to width of 6" and narrower any length \$3.25 per 100 lbs. extra on net weight, with minimum charge of 35c net for each thickness.

**QUALITY EXTRAS**

Per 100 Lbs.

|                    |        |
|--------------------|--------|
| Flanged Steel..... | \$0.25 |
| Firebox Steel..... | .50    |

**SKETCH PLATES**

Ordinary sketch plates up to 1" thick, inclusive, with no re-entrant cuts, will be charged for on the basis of above width and length shearing charges, plus 10c per 100 lbs., based on gross weight of the nearest stock width required.

Sketches cut from sheets will be charged on gross weight of the stock size sheet plus length and width cutting extras.

For sketch plates over 1" thick see Circular Plate Burning Schedule.

**CIRCLE CUTTING EXTRAS**

| Thickness                                     | DIAMETERS                       |                           |                                 |              |
|---|---------------------------------|---------------------------|---------------------------------|--------------|
|   | Over<br>96" to<br>120"<br>incl. | 24"<br>to<br>96"<br>incl. | Under<br>24" to<br>12"<br>incl. | Under<br>12" |
| $\frac{3}{16}$ " to $\frac{1}{2}$ " incl..... | \$1.40                          | \$1.25                    | \$2.00                          | \$2.75       |
| Over $\frac{1}{2}$ ".....                     | See Plate Burning Schedule.     |                           |                                 |              |

Above extras apply on net weight of finished circle.

Half circles take circle extras.

Floor plate circles take corresponding extras to circles of like gauge cut from plain plates, but are charged on gross weight of stock width and net length.

# CUTTING EXTRAS

(Continued)

## PLATE BURNING

Charge based on total lineal feet of one thickness.

Minimum charge 50c net, per thickness.

| Thick-<br>ness | Per Lineal Foot |                      | Thick-<br>ness | Per Lineal Foot |                      |
|----------------|-----------------|----------------------|----------------|-----------------|----------------------|
|                | Under<br>5 ft.  | 5 ft.<br>and<br>over |                | Under<br>5 ft.  | 5 ft.<br>and<br>over |
| 3/16"          | \$0.17          | \$0.12               | 15/8"          | \$0.32          | \$0.25               |
| 1/4"           | .17             | .12                  | 13/4"          | .34             | .27                  |
| 5/16"          | .17             | .12                  | 2"             | .38             | .30                  |
| 3/8"           | .17             | .12                  | 2 1/4"         | .43             | .34                  |
| 7/16"          | .17             | .12                  | 2 1/2"         | .46             | .37                  |
| 1/2"           | .18             | .13                  | 2 3/4"         | .52             | .41                  |
| 5/8"           | .19             | .14                  | 3"             | .57             | .45                  |
| 3/4"           | .20             | .15                  | 3 1/4"         | .61             | .49                  |
| 7/8"           | .21             | .16                  | 3 1/2"         | .67             | .53                  |
| 1"             | .22             | .17                  | 4"             | .76             | .61                  |
| 1 1/8"         | .23             | .18                  | 4 1/2"         | .86             | .69                  |
| 1 1/4"         | .25             | .20                  | 5"             | .96             | .77                  |
| 1 3/8"         | .27             | .21                  | 5 1/2"         | 1.08            | .86                  |
| 1 1/2"         | .29             | .23                  | 6"             | 1.20            | .95                  |

Intermediate thicknesses will take the next heavier plate basis.

Fractions of an inch of burning will be charged for the next full inch.

## Rectangular Plates

Over 1" thick charged on net weight plus Flame Cutting one side and one end at above extras unless Flame Cutting all edges is specified when charge will be for two sides and two ends. 1" thick and under will be charged for gross weight of nearest stock width and Flame Cutting of 4 edges.

## Circular Plates

All thicknesses, will be charged on the basis of gross weight of smallest square from which circle can be cut (size of square 1/2" larger than diameter specified), plus flame cutting charge based on circumference of circle.

## Rings

All thicknesses, will be charged at the gross weight of the nearest square from which ring can be flame cut (size of square 1/2" larger than diameter specified), plus lineal foot charge for flame cutting inner and outer circumferences.

## Sketches With Straight Sides

With straight sides and no re-entrant cuts.

Thicknesses over 1" will be charged at the gross weight of smallest rectangle from which sketch can be cut (size of rectangle 1/2" larger than plate required), plus charge for lineal feet for perimeter of sketch.

Thicknesses 1" and under will be charged at the gross weight of nearest stock width from which sketch can be cut plus charge for lineal feet of perimeter of sketch.

## Unusual Sketches

Including curves, re-entrants cuts, etc.: Extras quoted on application.

When Sketch Plates can be nested to avoid excessive waste, charge will be made accordingly.

## Note

Universal Plates over 1" thick stock sizes up to 14" wide inclusive cut to length, use structural cutting extras.

## CUTTING EXTRAS

(Continued)

## SHEET SHEARING CHARGES

Per 100 Lbs.

## TO LENGTH ONLY

| Gauge       | TO LENGTH ONLY       |                            |                            |                            |
|-------------|----------------------|----------------------------|----------------------------|----------------------------|
|             | 5 ft.<br>and<br>Over | Under<br>5 ft.<br>to 3 ft. | Under<br>3 ft.<br>to 2 ft. | Under<br>2 ft.<br>to 1 ft. |
| No. 8.....  | \$0.25               | \$0.35                     | \$0.45                     | \$0.55                     |
| No. 10..... | .30                  | .40                        | .50                        | .60                        |
| No. 12..... | .35                  | .45                        | .55                        | .65                        |
| No. 14..... | .40                  | .50                        | .60                        | .70                        |
| No. 16..... | .45                  | .55                        | .65                        | .75                        |
| No. 18..... | .50                  | .60                        | .70                        | .80                        |
| No. 20..... | .55                  | .65                        | .75                        | .85                        |
| No. 22..... | .60                  | .70                        | .80                        | .90                        |
| No. 24..... | .65                  | .75                        | .85                        | .95                        |
| No. 26..... | .70                  | .80                        | .90                        | 1.00                       |
| No. 27..... | .75                  | .85                        | .95                        | 1.05                       |
| No. 28..... | .80                  | .90                        | 1.00                       | 1.10                       |
| No. 29..... | .85                  | .95                        | 1.05                       | 1.15                       |
| No. 30..... | .90                  | 1.00                       | 1.10                       | 1.20                       |

## TO WIDTH ONLY

| Gauge    | WIDTHS         |                           |                           |                           |                   |             |
|----------|----------------|---------------------------|---------------------------|---------------------------|-------------------|-------------|
|          | 6" and<br>Over | Over<br>4" to<br>5 15/16" | Over<br>3" to<br>4" Incl. | Over<br>2" to<br>3" Incl. | 1" to<br>2" Incl. | Under<br>1" |
| No. 8... | \$0.25         | \$0.30                    | \$0.35                    | \$0.45                    | \$0.70            | \$0.95      |
| No. 10.. | .30            | .35                       | .40                       | .50                       | .75               | 1.00        |
| No. 12.. | .35            | .40                       | .45                       | .50                       | .75               | 1.00        |
| No. 14.. | .40            | .45                       | .50                       | .70                       | .80               | 1.10        |
| No. 16.. | .45            | .45                       | .50                       | .75                       | .90               | 1.10        |
| No. 18.. | .50            | .55                       | .60                       | .80                       | 1.00              | 1.30        |
| No. 20.. | .55            | .60                       | .70                       | .90                       | 1.15              | 1.50        |
| No. 22.. | .60            | .70                       | .80                       | 1.00                      | 1.25              | 1.60        |
| No. 24.. | .65            | .75                       | .90                       | 1.10                      | 1.50              | 1.75        |
| No. 26.. | .70            | .90                       | 1.00                      | 1.25                      | 1.50              | 2.00        |
| No. 27.. | .75            | 1.00                      | 1.10                      | 1.40                      | 1.75              | 2.50        |
| No. 28.. | .80            | 1.00                      | 1.10                      | 1.40                      | 1.75              | 2.50        |
| No. 29.. | .85            | 1.00                      | 1.10                      | 1.40                      | 1.75              | 2.50        |
| No. 30.. | .90            | 1.00                      | 1.10                      | 1.40                      | 1.75              | 2.50        |

Note: For widths under 6" which are cut to length add the following to the width charges:

Length 3 ft. and over.....2 times width charge.

Under 3 ft. to 1 ft.....2½ times width charge.

Under 1 ft.....3 times width charge.



## CUTTING EXTRAS

(Concluded)

### SHEET SHEARING CHARGES

Per 100 Lbs.

TO LENGTH AND WIDTH (Includes Circles)

| Gauge       | SHEARING TO WIDTH OF 6" AND OVER,<br>AND CUTTING TO LENGTH |                            |                            |                            |                |
|-------------|--|----------------------------|----------------------------|----------------------------|----------------|
|             | 5 ft.<br>and<br>Over                                       | Under<br>5 ft.<br>to 3 ft. | Under<br>3 ft.<br>to 2 ft. | Under<br>2 ft.<br>to 1 ft. | Under<br>1 ft. |
| No. 8.....  | \$0.45   | \$0.55                     | \$0.65                     | \$0.75                     | \$0.95         |
| No. 10..... | .50  | .60                        | .70                        | .80                        | 1.00           |
| No. 12..... | .55  | .65                        | .75                        | .85                        | 1.10           |
| No. 14..... | .60  | .70                        | .80                        | .90                        | 1.20           |
| No. 16..... | .65  | .75                        | .85                        | .95                        | 1.30           |
| No. 18..... | .70  | .80                        | .90                        | 1.00                       | 1.50           |
| No. 20..... | .75  | .85                        | .95                        | 1.05                       | 1.50           |
| No. 22..... | .80  | .90                        | 1.00                       | 1.10                       | 1.50           |
| No. 24..... | .85  | .95                        | 1.05                       | 1.15                       | 1.50           |
| No. 26..... | .90  | 1.00                       | 1.10                       | 1.20                       | 2.00           |
| No. 27..... | .95  | 1.05                       | 1.15                       | 1.25                       | 2.00           |
| No. 28..... | 1.00   | 1.10                       | 1.20                       | 1.30                       | 2.00           |
| No. 29..... | 1.05   | 1.15                       | 1.25                       | 1.35                       | 2.00           |
| No. 30..... | 1.10   | 1.20                       | 1.30                       | 1.40                       | 2.00           |

All sheets cut to size charged on gross weight of stock sizes, or where size cut will leave another stock size, charge gross weight of the difference.

Intermediate gauges will be charged for on the basis of the next lighter gauge.

Above charges apply on all Knobby and Knobbyette Pattern Floor Plates lighter than No. 8 Gauge. Knobbyette pattern charged on gross weight of 6' multiples in width and 12" multiples in length.

## WAREHOUSE QUANTITY EXTRAS

Warehouse quantity extras as listed below will apply on—HOT ROLLED BARS, BAR SIZE SHAPES, BANDS, HOOPS, HOT ROLLED SHEETS, STRUCTURAL—ALL SECTIONS, PLATES—ALL GRADES AND DIAMOND PATTERN FLOOR PLATES, when combined for shipment at one time:

Quantities under 100 lbs. \$1.50 per 100 lbs. advance over base.

100 lbs. to 399 lbs. .50 per 100 lbs. advance over base.

400 lbs. to 3999 lbs. Base Price.

4000 lbs. to 9999 lbs. .10 per 100 lbs. less than base.

10000 lbs. and over .15 per 100 lbs. less than base.

Prices will be determined according to the total tonnage available in the above list of commodities only, for immediate shipment at one time according to the above differentials and only the above commodities will be considered in making up this tonnage.

Commodities not listed above will be priced as heretofore and such commodities if included in mixed orders will not be considered a part of the weight that determines the quantity differential which applies.

These quantity differentials are an advantage to you, making it possible for you to get better prices by combining your orders for one shipment. Our increased stock and facilities for handling your orders are at your service.

## STANDARD VARIATIONS IN SHEARING

## Material Sheared from Warehouse Stock

The shearing variation listed below governs shearing on commodities as specified for shipments from warehouse stock. All orders we accept are subject to these variations in shearing unless otherwise specified.\*\*

| Bars and Bar Shapes  | Over                | Under               |
|--|---------------------|---------------------|
| Rounds and Squares up to 2 inch.....   | $\frac{1}{4}$ inch  | $\frac{1}{4}$ inch  |
| Rounds and Squares 2 inch to $7\frac{1}{4}$ inch.....                          | $\frac{1}{4}$ "     | $\frac{1}{4}$ "     |
| Flats, $\frac{1}{4}$ inch to $\frac{5}{8}$ inch thick.....                     | $\frac{1}{8}$ "     | $\frac{1}{8}$ "     |
| Flats, over $\frac{5}{8}$ inch thick.....                                      | $\frac{1}{4}$ "     | $\frac{1}{4}$ "     |
| Bar Tees and Channels, up to but not including 3 inch.....                     | $\frac{1}{4}$ "     | $\frac{1}{4}$ "     |
| Bar Angles, up to but not including 3 inch....                                 | $\frac{1}{8}$ "     | $\frac{1}{8}$ "     |
| Structurals  | Over                | Under               |
| Beams, Channels and Tees, 6 inch and under..                                   | $\frac{1}{4}$ inch  | $\frac{1}{4}$ inch  |
| Beams, Channels and Tees, over 6 inch.....                                     | $\frac{3}{8}$ "     | $\frac{3}{8}$ "     |
| Angles, 3 inch and larger .....  | $\frac{1}{8}$ "     | $\frac{1}{8}$ "     |
| Plates (Except Sketches)   | Over                | Under               |
| U. M. Plates, $\frac{5}{8}$ inch and under, 24 inches wide and under.....      | $\frac{1}{4}$ inch  | $\frac{1}{4}$ inch  |
| U. M. Plates, over $\frac{5}{8}$ inch, 24 inches wide and under.....           | $\frac{1}{4}$ "     | $\frac{1}{4}$ "     |
| Plates, $\frac{5}{8}$ inch and under, 36 inches wide and under.....            | $\frac{1}{4}$ "     | $\frac{1}{4}$ "     |
| Plates, $\frac{5}{8}$ inch and under, over 36 inches wide                      | $\frac{1}{4}$ "     | $\frac{1}{4}$ "     |
| Plates, over $\frac{5}{8}$ inch up to 9 feet 6 inches on cut edge.....         | $\frac{5}{16}$ "    | $\frac{5}{16}$ "    |
| Plates, all thicknesses where cutting edge is longer than 9 feet 6 inches..... | $\frac{5}{16}$ "    | $\frac{5}{16}$ "    |
| Sheets—Rectangular   | Over                | Under               |
| Sheets, No. 8 and 10 Gauge.....  | $\frac{3}{16}$ inch | $\frac{3}{16}$ inch |
| " No. 12 to 18 Gauge.....  | $\frac{1}{8}$ "     | $\frac{1}{8}$ "     |
| " No. 20 to 30 Gauge.....  | $\frac{1}{16}$ "    | $\frac{1}{16}$ "    |
| Strip Steel  | Over                | Under               |
| .120" and over.....  | $\frac{1}{8}$ inch  | $\frac{1}{8}$ inch  |
| .109" to .050", incl.....  | $\frac{1}{16}$ "    | $\frac{1}{16}$ "    |
| .042" to .016", incl.....  | $\frac{1}{32}$ "    | $\frac{1}{32}$ "    |

\*\*Prices for accurate shearing quoted upon application.

# LET US HELP YOU

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|                  |   |  |
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| M. E. CAIN       | } | In Charge of Orders<br>and Production  |
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| H. CARLSON       |   |  |
| M. SCULLY        |   | Price Clerk  |
| W. S. BUSH       |   | Manager of Sales   |
| M. R. McLAUGHLIN |   | Manager Plumbing<br>Supply Dept.   |
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| B. W. HAMILTON   |   |  |
| L. E. GILLESPIE  |   |  |
| J. C. KRAHE      |   |  |
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| H. M. REGELMAN   |   | Structural Shop<br>Foreman   |
| C. L. PIFER      |   | Warehouse Foreman  |
| M. D. WHITE      |   | Receiving Clerk and<br>Traffic Manager   |
| W. E. McCAIN     |   | Pres. and Gen. Mgr.  |

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## ITEMS WE CAN FURNISH

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|                                    |                                    |
|------------------------------------|------------------------------------|
| Anchor Bolts                       | Lock Washers                       |
| Angles                             | Manhole Hooks                      |
| Anvils                             | Manhole Steps                      |
| Architectural Projected<br>Windows | Metal Ceilings                     |
| Bands                              | Metal Lath                         |
| Bars                               | Mortar Boxes                       |
| Basement Windows—Steel             | Nails                              |
| Beams                              | Nuts                               |
| Billets                            | Oil Well Casing                    |
| Black Annealed Wire                | One Pass Cold Rolled<br>Sheets     |
| Blue Annealed Sheets               | Package Receivers                  |
| Bolt Ends                          | Partitions—Hollow Metal            |
| Bolts—Carriage                     | Partitions—Toilet                  |
| Bolts—Machine                      | Pipe                               |
| Cabinets                           | Pipe Columns                       |
| Casements                          | Pipe Fittings                      |
| Chain                              | Plates                             |
| Channels                           | Rails                              |
| Checkered Floor Plates             | Railings—Pipe                      |
| Chutes—Window                      | Reinforcing Steel                  |
| Circular Plates                    | Reinforcing Steel Accessories      |
| Clips—Roofing                      | Rivets                             |
| Cold Rolled Steel                  | Rock Face and Brick Face<br>Siding |
| Cold Rolled Strip Steel            | Roofing—Corrugated                 |
| Columns—H Section                  | Roofing Paint                      |
| Columns—Pipe                       | Round Bars                         |
| Cutting—Welding Equipt.            | Safe-T-Mesh                        |
| Corner Bead                        | Sag Rods                           |
| Deformed Round Bars                | Sash—Steel Factory                 |
| Diamond Floor Plates               | Sash Pulleys                       |
| Doors—Rolling Steel                | Sash Weights                       |
| Doors—Kalamein                     | Sheet Metal Supplies               |
| Doors—Tin Clad                     | Sheets—Corrugated                  |
| Drawbars                           | Sketch Plates                      |
| Drift Pin Steel                    | Square Bars                        |
| Electric Hoists                    | Snow Fence                         |
| Eye Bolts                          | Spring Steel                       |
| Eye Rods                           | Stair Stringers                    |
| Expanded Metal                     | Stanchions                         |
| Fabricated Steel                   | Staybolt Steel                     |
| Fence Posts                        | Steel Joists                       |
| Fencing—Chain Link                 | Sway Rods                          |
| Fencing—Wire                       | Tees                               |
| Fittings—Pipe                      | Threaded Rods                      |
| Flanges                            | Tire Steel                         |
| Flat Bars                          | Tool Steel                         |
| Forgings                           | Truss Rods                         |
| Gaggers                            | Tubes                              |
| Galv. Corr. Roofing                | Turnbuckles                        |
| Galvanized Sheets                  | Wall Ties                          |
| H Beams                            | Washers—Cast Iron                  |
| Highway Guard                      | Washers—Plate                      |
| Hollow Metal Windows               | Washers—Wrought                    |
| Hook Bolts                         | Welded Steel Fabric                |
| Hoops                              | Welding Rods—Hard Facing           |
| I Beams                            | Welding Wire                       |
| Industrial Mesh—Accessories        | Wire                               |
| Joist Hangers                      |                                    |
| Lag Screws                         |                                    |

# SIMONDS

## RED TANG

Metal Saw Tooth

## FILES

Faster, easier cutting  
chips roll off in coils



LIST PRICE PER DOZEN

| INCH | MILL  |        |        | MILL 1 R. E. |        | MILL 2 R. E. |        | MILL BLUNT |        | Square Blunt Bast. | Round Blunt Bast. |
|------|-------|--------|--------|--------------|--------|--------------|--------|------------|--------|--------------------|-------------------|
|      | Bast. | 2d Cut | Smooth | Bast.        | 2d Cut | Bast.        | 2d Cut | Bast.      | 2d Cut |                    |                   |
| 4    | 3.00  | ....   | ....   | ....         | ....   | ....         | ....   | ....       | ....   | ....               | ....              |
| 5    | 3.20  | ....   | ....   | ....         | ....   | ....         | ....   | ....       | ....   | ....               | ....              |
| 6    | 3.50  | 4.00   | 4.50   | 3.90         | 4.50   | 4.40         | 5.00   | 3.90       | 4.60   | ....               | ....              |
| 7    | 3.90  | 4.60   | ....   | 4.40         | 5.20   | 4.90         | ....   | 4.30       | 4.90   | ....               | ....              |
| 8    | 4.30  | 4.90   | 5.40   | 4.80         | 5.50   | 5.40         | 6.10   | 4.90       | 5.80   | 7.40               | 5.60              |
| 9    | 4.90  | 5.80   | ....   | 5.50         | 6.50   | 6.10         | ....   | ....       | ....   | ....               | ....              |
| 10   | 5.60  | 6.40   | 7.00   | 6.30         | 7.20   | 7.00         | 8.00   | 6.70       | 7.80   | 10.20              | 7.50              |
| 12   | 7.50  | 8.60   | 9.40   | 8.40         | 9.70   | 9.40         | 10.80  | ....       | ....   | 13.90              | 10.70             |
| 14   | 10.70 | 12.20  | 13.10  | 12.00        | ....   | ....         | ....   | ....       | ....   | 18.70              | 14.70             |
| 16   | 14.70 | 16.80  | 17.90  | ....         | ....   | ....         | ....   | ....       | ....   | 25.10              | ....              |
| 18   | 20.20 | ....   | ....   | ....         | ....   | ....         | ....   | ....       | ....   | 32.80              | ....              |

| INCH | FLAT  |        |        | HAND  |        |        | PILLAR |        |        | HAND FINISHING |        |
|------|-------|--------|--------|-------|--------|--------|--------|--------|--------|----------------|--------|
|      | Bast. | 2d Cut | Smooth | Bast. | 2d Cut | Smooth | Bast.  | 2d Cut | Smooth | 2d Cut         | Smooth |
| 4    | 3.70  | 4.30   | 4.70   | 3.70  | 4.30   | 4.80   | ....   | ....   | ....   | ....           | ....   |
| 5    | 3.90  | 4.60   | 4.90   | 3.90  | 4.70   | 5.30   | ....   | ....   | ....   | ....           | ....   |
| 6    | 4.30  | 4.80   | 5.30   | 4.30  | 5.10   | 5.60   | 4.30   | 5.10   | 5.60   | ....           | ....   |
| 7    | 4.80  | 5.50   | 6.10   | 4.90  | 5.80   | 6.30   | ....   | ....   | ....   | ....           | ....   |
| 8    | 5.30  | 6.10   | 6.60   | 5.40  | 6.30   | 6.70   | 5.40   | 6.30   | 6.70   | ....           | ....   |
| 9    | 6.30  | 7.20   | 7.90   | 6.70  | 7.80   | *8.30  | ....   | ....   | ....   | ....           | ....   |
| 10   | 7.00  | 8.10   | 8.70   | 7.50  | 8.70   | 9.40   | 7.50   | 8.70   | 9.40   | ....           | ....   |
| 12   | 9.70  | 11.00  | 12.10  | 10.70 | 12.30  | 13.50  | 10.70  | 12.30  | 13.50  | 15.20          | 16.20  |
| 14   | 13.30 | 15.30  | 16.70  | 15.00 | 17.00  | 18.20  | 15.00  | ....   | ....   | 20.60          | 21.70  |
| 16   | 17.80 | 20.10  | 22.30  | 20.10 | 22.80  | 24.20  | 20.10  | ....   | ....   | ....           | ....   |
| 18   | 23.90 | 26.80  | 29.20  | 26.80 | 29.90  | 31.50  | ....   | ....   | ....   | ....           | ....   |
| 20   | 31.50 | ....   | ....   | ....  | 35.10  | ....   | ....   | ....   | ....   | ....           | ....   |

| INCH | ROUND |        |        | SQUARE |        |        | HALF ROUND |        |        | THREE SQUARE |        |        |
|------|-------|--------|--------|--------|--------|--------|------------|--------|--------|--------------|--------|--------|
|      | Bast. | 2d Cut | Smooth | Bast.  | 2d Cut | Smooth | Bast.      | 2d Cut | Smooth | Bast.        | 2d Cut | Smooth |
| 4    | 3.00  | 3.50   | 3.90   | 3.80   | 4.60   | 4.90   | 4.80       | 5.60   | 6.10   | 4.80         | 5.60   | 6.10   |
| 5    | 3.20  | 3.80   | 4.10   | 4.10   | 4.80   | 5.30   | 5.40       | 6.10   | 6.40   | 5.40         | 6.10   | 6.40   |
| 6    | 3.50  | 4.00   | 4.50   | 4.60   | 5.10   | 5.50   | 6.10       | 6.70   | 7.10   | 6.10         | 6.70   | 7.10   |
| 7    | 3.90  | 4.60   | 4.90   | 5.10   | 5.80   | 6.30   | 7.00       | 7.70   | 8.20   | 7.00         | 7.70   | 8.20   |
| 8    | 4.30  | 4.90   | 5.40   | 5.50   | 6.30   | 7.00   | 7.50       | 8.30   | 8.80   | 7.50         | 8.30   | 8.90   |
| 9    | 4.90  | 5.80   | 6.30   | ....   | ....   | ....   | ....       | ....   | ....   | ....         | ....   | ....   |
| 10   | 5.60  | 6.40   | 7.00   | 7.40   | 8.50   | 9.10   | 9.10       | 10.10  | 10.70  | 9.10         | 10.10  | 10.70  |
| 12   | 7.50  | 8.60   | 9.40   | 10.20  | 11.50  | 12.80  | 11.80      | 13.00  | 13.90  | 11.80        | 13.00  | 13.90  |
| 14   | 10.70 | 12.20  | 13.10  | 13.90  | 16.10  | 17.50  | 15.50      | 17.00  | 18.30  | 15.50        | 17.00  | 18.30  |
| 16   | 14.70 | 16.80  | 17.90  | 18.70  | 21.20  | 23.30  | 20.60      | 22.50  | 24.20  | 20.60        | 22.50  | 24.20  |
| 18   | 20.20 | 22.70  | 24.30  | 25.10  | 28.20  | 30.40  | 27.50      | 29.90  | 32.00  | 27.50        | 29.90  | 32.00  |
| 20   | 27.40 | ....   | ....   | 32.80  | ....   | ....   | ....       | ....   | ....   | ....         | ....   | ....   |

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**SIMONDS RED TANG** FILES  
 with utmost confidence.  
 Orders filled promptly from our stock.





# SIMONDS RED TANG FILES

LIST PRICE PER DOZEN

| INCH | TAPERS   |          | Slim Taper | Extra Slim Taper | BANDSAW BLUNT & TAPER |      | Double End | Pit Saw | Special Hand Saw | HAND SAW |            |
|------|----------|----------|------------|------------------|-----------------------|------|------------|---------|------------------|----------|------------|
|      | Sgl. Cut | Dbl. Cut |            |                  | Regular               | Slim |            |         |                  | Blunt    | Blunt Slim |
| 3    | 2.10     | ....     | 2.10       | ....             | ....                  | .... | ....       | ....    | ....             | ....     | ....       |
| 3½   | 2.10     | ....     | 2.10       | ....             | ....                  | .... | ....       | ....    | ....             | ....     | ....       |
| 4    | 2.20     | 2.90     | 2.20       | 2.90             | ....                  | .... | 4.80       | ....    | ....             | 2.60     | 2.50       |
| 4½   | 2.40     | 3.10     | 2.30       | 2.30             | 3.10                  | .... | 5.40       | ....    | ....             | 3.00     | ....       |
| 5    | 2.60     | 3.50     | 2.50       | 3.50             | ....                  | .... | 5.40       | ....    | ....             | 3.40     | 3.10       |
| 5½   | 3.00     | ....     | 2.90       | 2.90             | ....                  | .... | 6.10       | 3.80    | ....             | ....     | ....       |
| 6    | 3.40     | 4.70     | 3.10       | 3.10             | 4.70                  | 3.90 | 6.10       | 4.50    | ....             | 4.30     | 3.80       |
| 7    | 4.30     | 5.60     | 3.80       | 3.80             | 5.60                  | .... | 7.00       | 5.40    | ....             | 5.40     | ....       |
| 8    | 5.40     | 6.70     | 4.50       | 4.50             | 6.70                  | 5.30 | 7.50       | ....    | ....             | 6.60     | 5.40       |
| 9    | ....     | ....     | ....       | ....             | ....                  | .... | 4.40       | ....    | ....             | ....     | ....       |
| 10   | 8.10     | ....     | 6.40       | ....             | 9.70                  | .... | 4.90       | ....    | ....             | ....     | ....       |
| 12   | 12.50    | ....     | 9.50       | ....             | ....                  | .... | ....       | ....    | ....             | ....     | ....       |

| INCH | WARDING |        |        | KNIFE |        |        | Planer Knife | Cant Saw | Cross Cut | Cabinet Files | LEAD FLOAT AND WOOD FILES |         |
|------|---------|--------|--------|-------|--------|--------|--------------|----------|-----------|---------------|---------------------------|---------|
|      | Bast.   | 2d Cut | Smooth | Bast. | 2d Cut | Smooth |              |          |           |               | Flat                      | Hf. Rd. |
| 4    | 4.00    | 3.80   | 5.40   | 5.40  | 6.10   | 6.40   | ....         | ....     | ....      | ....          | ....                      | ....    |
| 4½   | 4.50    | 5.30   | 5.80   | 6.10  | 6.70   | 7.10   | ....         | ....     | ....      | ....          | ....                      | ....    |
| 6    | 4.90    | 5.90   | 6.40   | 6.90  | 7.50   | 7.90   | ....         | 5.40     | ....      | 8.10          | 4.80                      | 7.00    |
| 8    | 6.40    | 7.50   | 8.20   | 8.50  | 9.10   | 9.50   | 6.40         | 6.40     | 7.50      | 10.10         | 6.30                      | 8.50    |
| 10   | 8.70    | 10.10  | 11.00  | 10.10 | 11.50  | 12.30  | 8.60         | 8.70     | 9.10      | 13.70         | 8.60                      | 10.70   |
| 12   | ....    | ....   | ....   | 13.70 | 15.20  | 16.10  | ....         | ....     | ....      | ....          | 11.80                     | 14.10   |
| 14   | ....    | ....   | ....   | ....  | ....   | ....   | ....         | ....     | ....      | 24.80         | 16.00                     | 18.50   |
| 16   | ....    | ....   | ....   | ....  | ....   | ....   | ....         | ....     | ....      | ....          | 21.50                     | 24.70   |

| INCH | FLAT WOOD RASPS |        | HALF ROUND WOOD RASPS |        | CABINET RASPS |        | SHOE RASPS |         | HORSE RASPS  |        |
|------|-----------------|--------|-----------------------|--------|---------------|--------|------------|---------|--------------|--------|
|      | Bast            | Smooth | Bast                  | Smooth | 2d Cut        | Smooth | Flat       | Hf. Rd. | Plain ½ File | Tanged |
| 6    | ....            | ....   | 8.10                  | 10.10  | 10.10         | 11.70  | ....       | ....    | ....         | ....   |
| 8    | 9.40            | 12.80  | 10.10                 | 13.70  | 12.80         | 15.50  | 10.10      | 10.10   | ....         | ....   |
| 9    | ....            | ....   | ....                  | ....   | ....          | ....   | 12.20      | 12.20   | ....         | ....   |
| 10   | 12.80           | 17.50  | 13.70                 | 18.70  | 17.50         | 20.70  | 13.70      | 13.70   | ....         | ....   |
| 12   | 17.50           | 23.20  | 18.70                 | 24.80  | 22.80         | 26.80  | ....       | ....    | 12.80        | 16.80  |
| 13   | ....            | ....   | ....                  | ....   | ....          | ....   | ....       | ....    | ....         | 19.60  |
| 14   | 23.20           | 30.80  | 24.80                 | 32.90  | 29.60         | 33.90  | ....       | ....    | 17.80        | 23.10  |
| 15   | ....            | ....   | ....                  | ....   | ....          | ....   | ....       | ....    | 20.90        | ....   |
| 16   | 30.80           | 40.90  | 32.90                 | 43.60  | ....          | ....   | ....       | ....    | 24.40        | 32.20  |
| 18   | ....            | ....   | ....                  | ....   | ....          | ....   | ....       | ....    | 32.90        | ....   |

The above list comprises all of the kinds, sizes, and cuts of files that will be regularly carried in stock. Anything differing from these files will be considered as special and will not be manufactured except in cases of urgent necessity; and when manufactured, price will be based strictly upon cost of material and cost of manufacture as time goods are made.

Write for Discounts

## Simonds Hard Edge Metal Band Saws



Hard Edge Metal Band Saws are made of a tough alloy steel with perfectly milled teeth shaped to give longer life and more cutting service. Simonds Hard Edge Bands lower the cutting costs.

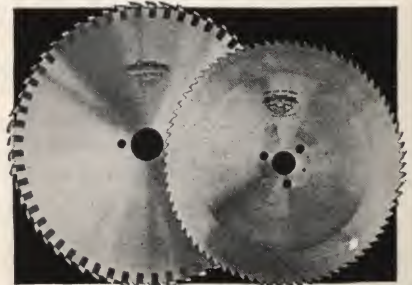
### LIST PRICES

| Width | Thick-<br>ness | Teeth Per Inch                | Price Weld-<br>Per Ft. ing |
|-------|----------------|-------------------------------|----------------------------|
| ¾"    | .025           | 10, 12, 14, 18, 24.....       | \$ .09 \$ .40              |
| ¾"    | .025           | 10, 12, 14, 18, 24.....       | .10 .40                    |
| 1½"   | .025           | 10, 12, 14, 18, 24.....       | .11 .40                    |
| 5/8"  | .032           | 8, 10, 12, 14, 18, 24.....    | .14 .50                    |
| ¾"    | .032           | 6, 8, 10, 12, 14, 18, 24..... | .16 .50                    |
| 1"    | .035           | 6, 8, 10, 12, 14, 18, 24..... | .20 .50                    |

## Metal Cutting Saws

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